CURRENT IN AMPERES
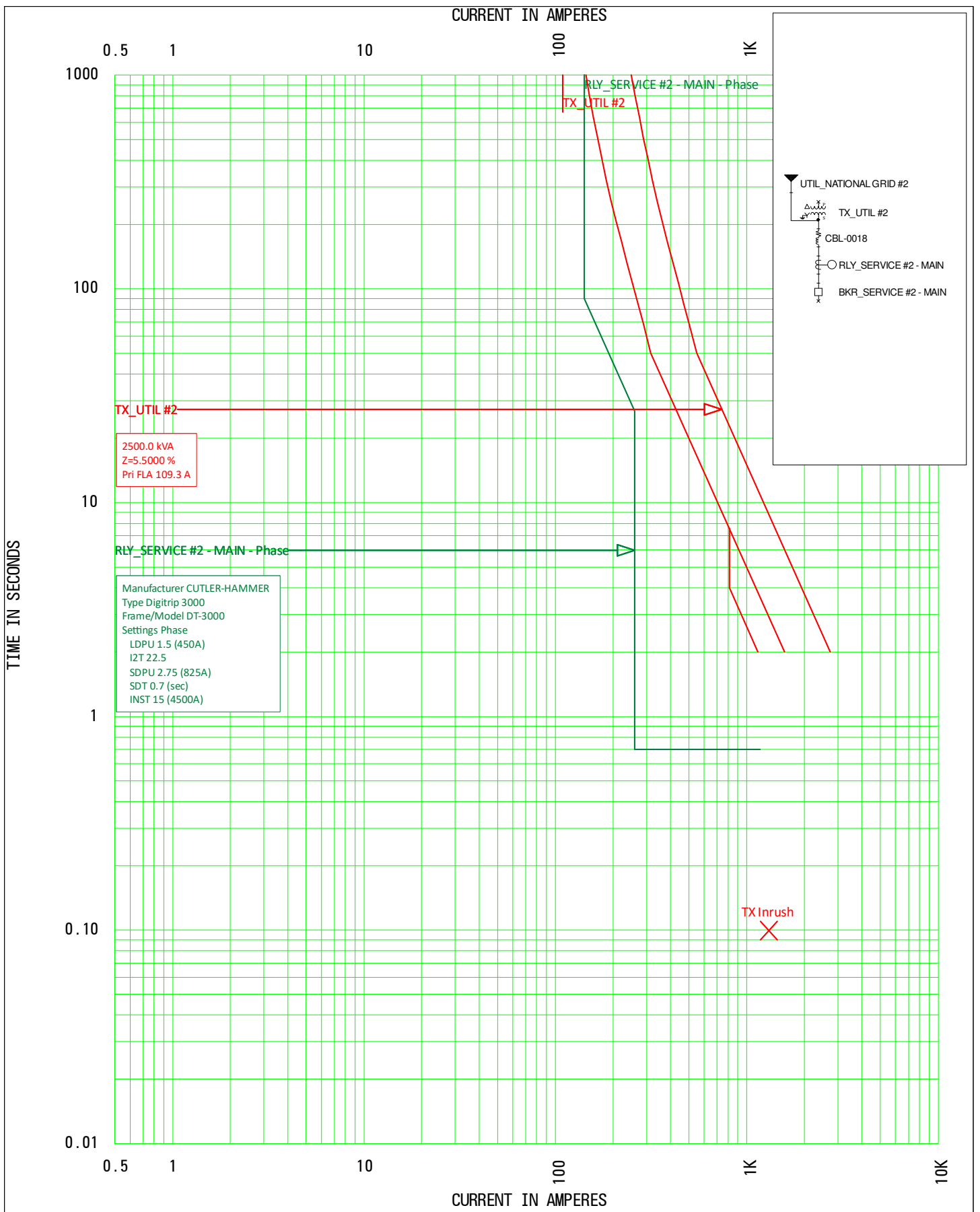

TCC Name: TCC_001_TX_UTIL #1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 13200V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #2 - MAIN - Phase

TX_UTIL #2

TX_UTIL #2

2500.0 kVA
Z=5.5000 %
Pri FLA 109.3 A

RLY_SERVICE #2 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
    LDPU 1.5 (450A)
    I2T 22.5
    SDPU 2.75 (825A)
    SDT 0.7 (sec)
    INST 15 (4500A)

TX Inrush

UTIL_NATIONAL GRID #2
TX_UTIL #2
CBL-0018
RLY_SERVICE #2 - MAIN
BKR_SERVICE #2 - MAIN

CURRENT IN AMPERES

TCC Name: TCC_002_TX_UTIL #2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 13200V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TX_UTIL #3
RLY_SERVICE #3 - MAIN

UTIL_NATIONAL GRID #3
TX_UTIL #3
CBL-0020
RLY_SERVICE #3 - MAIN
BKR_SERVICE #3 - MAIN

TX_UTIL #3

2500.0 kVA
Z=5.7500 %
Pri FLA 109.3 A

RLY_SERVICE #3 - MAIN

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 3
  SDPU 8 (2400A)
  SDT 0.5 (sec)
  INST NONE (29999700A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_003_TX_UTIL #3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 13200V
Lowell General Hospital
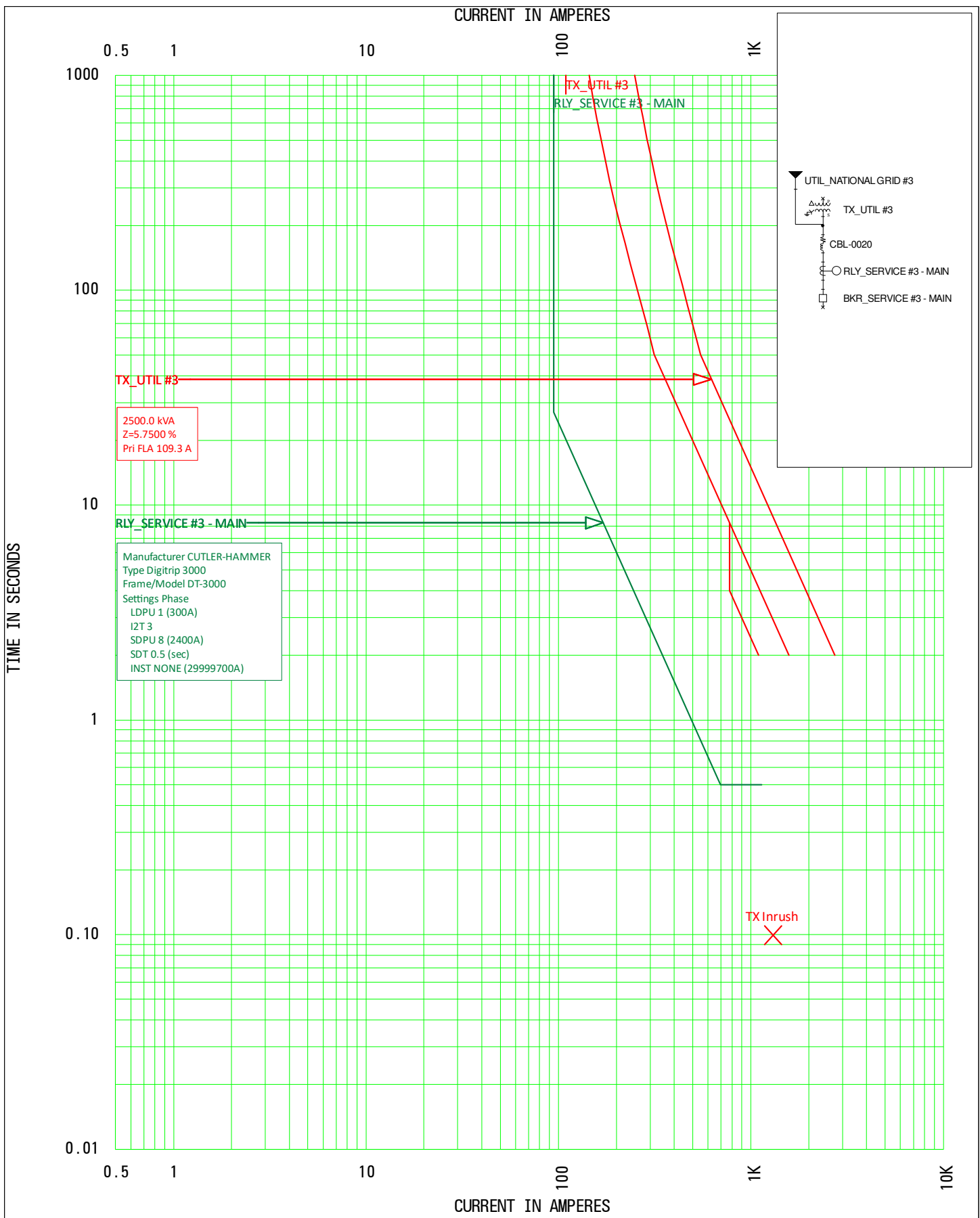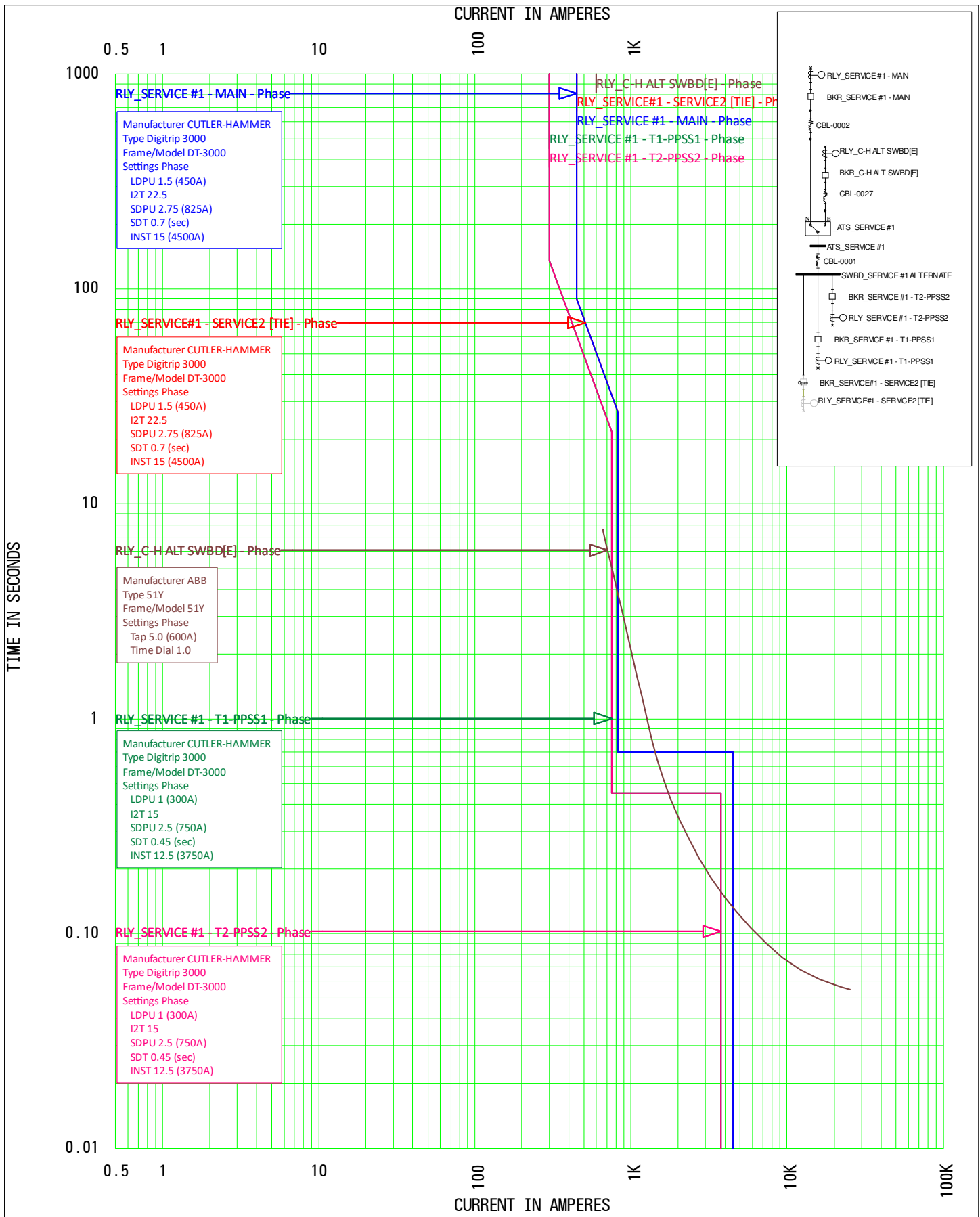Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #1 - MAIN - Phase

RLY_C-H ALT SWBD[E] - Phase
RLY_SERVICE#1 - SERVICE2 [TIE] - Ph
RLY_SERVICE #1 - MAIN - Phase
RLY_SERVICE #1 - T1-PPSS1 - Phase
RLY_SERVICE #1 - T2-PPSS2 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.5 (450A)
  I2T 22.5
  SDPU 2.75 (825A)
  SDT 0.7 (sec)
  INST 15 (4500A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.5 (450A)
  I2T 22.5
  SDPU 2.75 (825A)
  SDT 0.7 (sec)
  INST 15 (4500A)

RLY_C-H ALT SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 5.0 (600A)
  Time Dial 1.0

RLY_SERVICE #1 - T1-PPSS1 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2.5 (750A)
  SDT 0.45 (sec)
  INST 12.5 (3750A)

RLY_SERVICE #1 - T2-PPSS2 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2.5 (750A)
  SDT 0.45 (sec)
  INST 12.5 (3750A)

TIME IN SECONDS

One-line diagram labels:
RLY_SERVICE #1 - MAIN
BKR_SERVICE #1 - MAIN
CBL-0002
RLY_C-H ALT SWBD[E]
BKR_C-H ALT SWBD[E]
CBL-0027
ATS_SERVICE #1
ATS_SERVICE #1
CBL-0001
SWBD_SERVICE #1 ALTERNATE
BKR_SERVICE #1 - T2-PPSS2
RLY_SERVICE #1 - T2-PPSS2
BKR_SERVICE #1 - T1-PPSS1
RLY_SERVICE #1 - T1-PPSS1
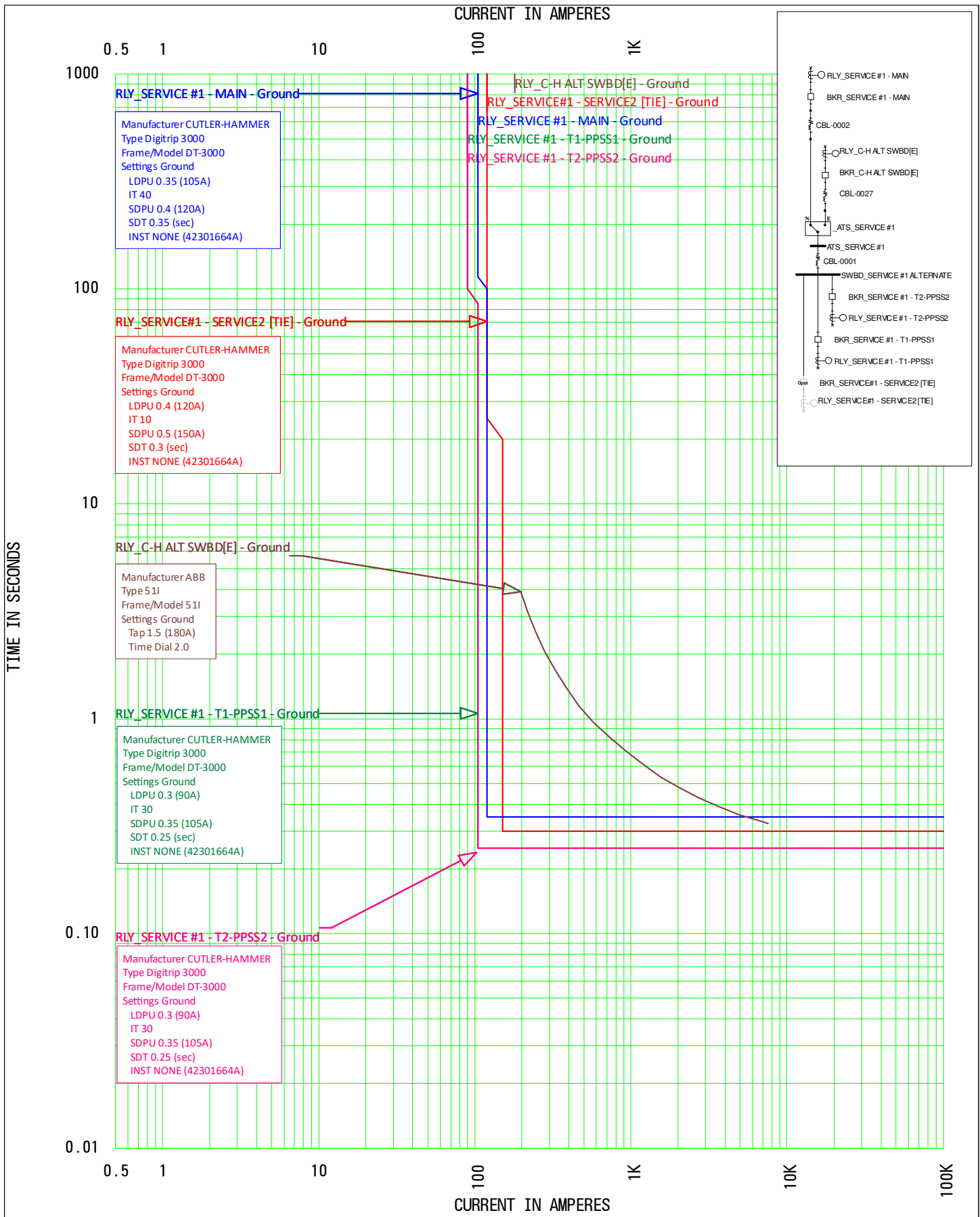BKR_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE#1 - SERVICE2 [TIE]

TCC Name: TCC_004a_SWBD_SERVICE #1 ALTERNATE_ph
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #1 - MAIN - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.35 (105A)
  IT 40
  SDPU 0.4 (120A)
  SDT 0.35 (sec)
  INST NONE (42301664A)

RLY_C-H ALT SWBD[E] - Ground
RLY_SERVICE#1 - SERVICE2 [TIE] - Ground
RLY_SERVICE #1 - MAIN - Ground
RLY_SERVICE #1 - T1-PPSS1 - Ground
RLY_SERVICE #1 - T2-PPSS2 - Ground

RLY_SERVICE#1 - SERVICE2 [TIE] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.4 (120A)
  IT 10
  SDPU 0.5 (150A)
  SDT 0.3 (sec)
  INST NONE (42301664A)

RLY_C-H ALT SWBD[E] - Ground

Manufacturer ABB
Type 51I
Frame/Model 51I
Settings Ground
  Tap 1.5 (180A)
  Time Dial 2.0

RLY_SERVICE #1 - T1-PPSS1 - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 30
  SDPU 0.35 (105A)
  SDT 0.25 (sec)
  INST NONE (42301664A)

RLY_SERVICE #1 - T2-PPSS2 - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 30
  SDPU 0.35 (105A)
  SDT 0.25 (sec)
  INST NONE (42301664A)

TIME IN SECONDS

One-line diagram labels

- RLY_SERVICE #1 - MAIN
- BKR_SERVICE #1 - MAIN
- CBL-0002
- RLY_C-H ALT SWBD[E]
- BKR_C-H ALT SWBD[E]
- CBL-0027
- ATS_SERVICE #1
- ATS_SERVICE #1
- CBL-0001
- SWBD_SERVICE #1 ALTERNATE
- BKR_SERVICE #1 - T2-PPSS2
- RLY_SERVICE #1 - T2-PPSS2
- BKR_SERVICE #1 - T1-PPSS1
- RLY_SERVICE #1 - T1-PPSS1
- BKR_SERVICE#1 - SERVICE2 [TIE]
- RLY_SERVICE#1 - SERVICE2 [TIE]

TCC Name: TCC_004b_SWBD_SERVICE #1 ALTERNATE_ne
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
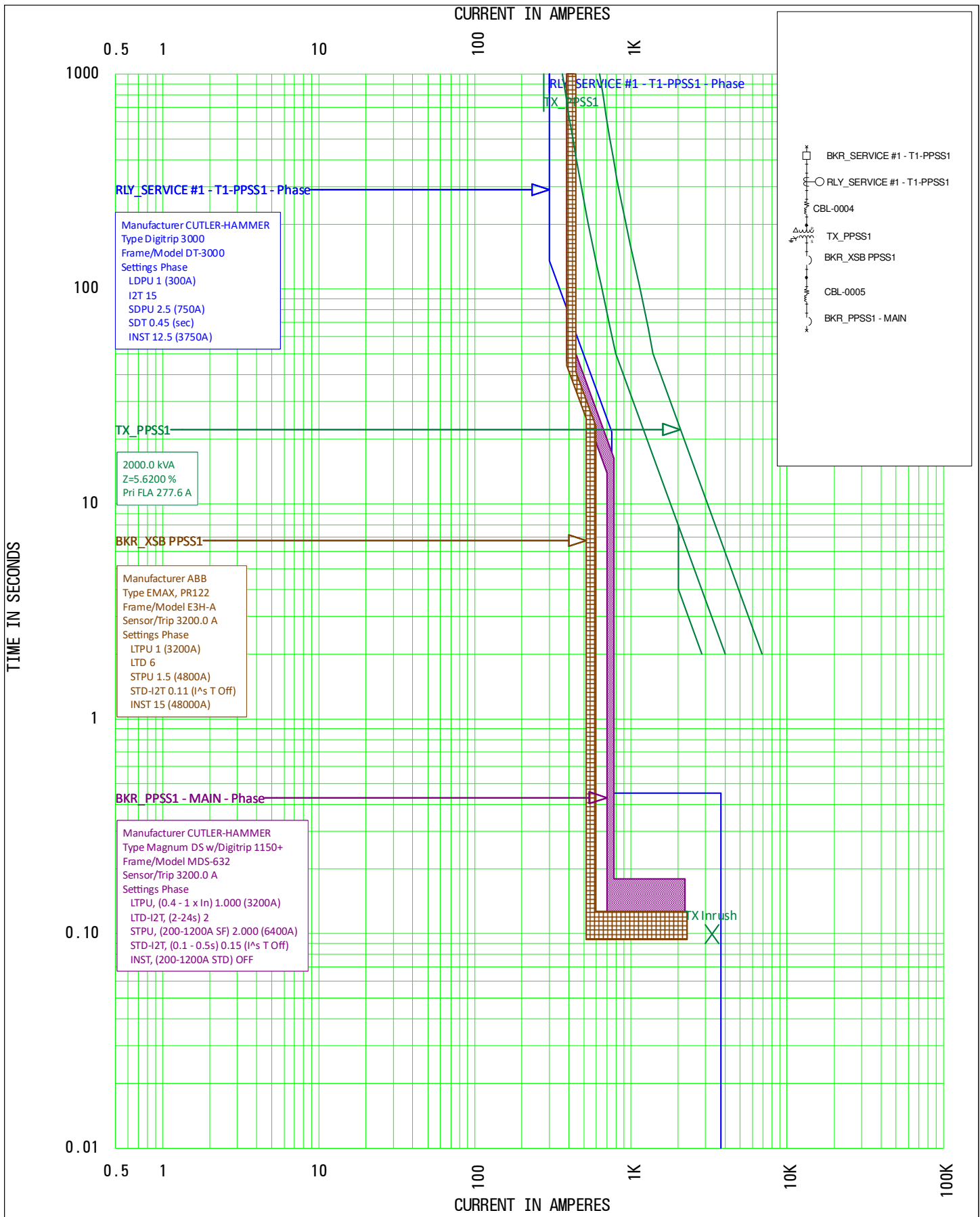Main Campus

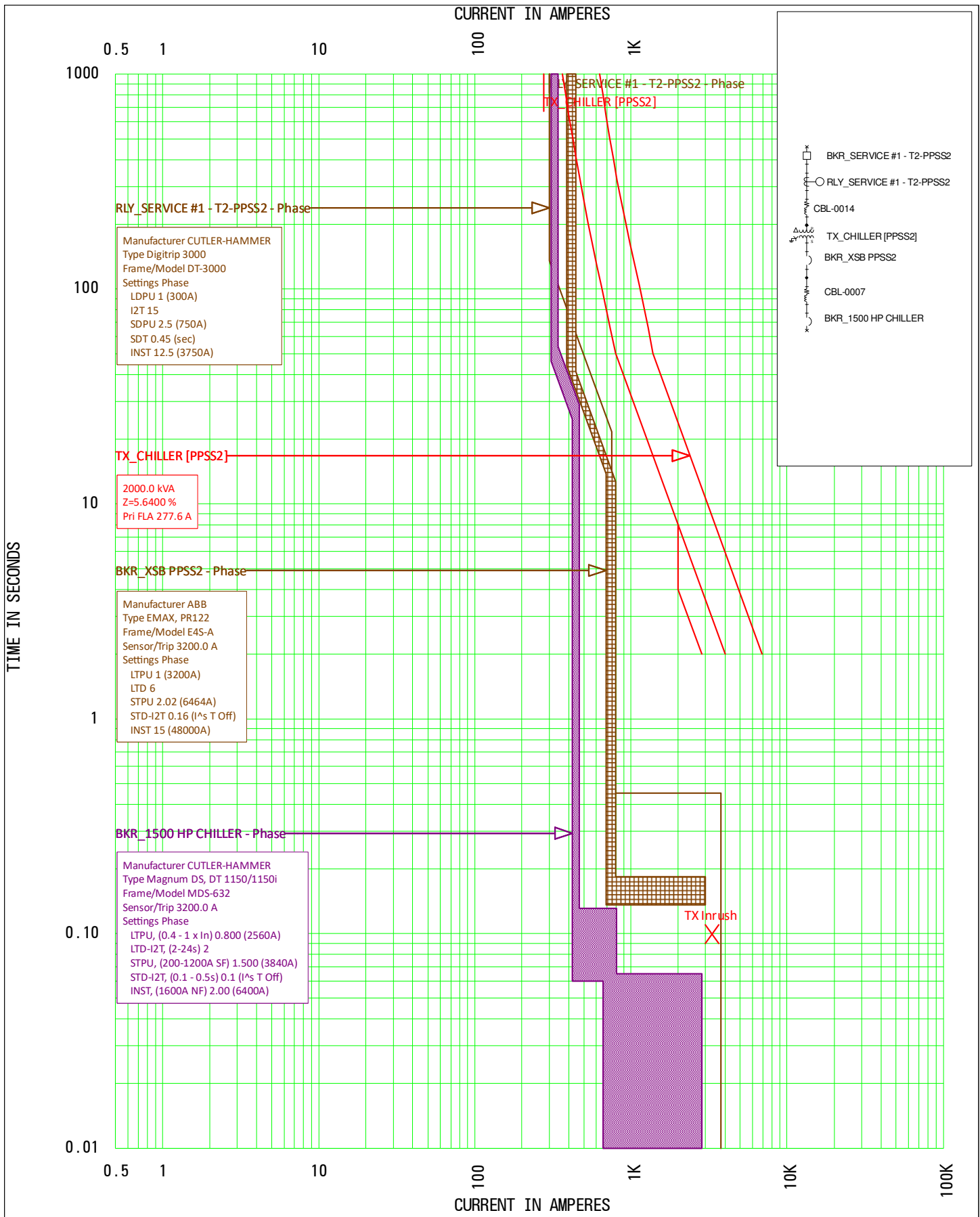**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #1 - T1-PPSS1 - Phase
TX_PPSS1

RLY_SERVICE #1 - T1-PPSS1 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
    LDPU 1 (300A)
    I2T 15
    SDPU 2.5 (750A)
    SDT 0.45 (sec)
    INST 12.5 (3750A)

TX_PPSS1

2000.0 kVA
Z=5.6200 %
Pri FLA 277.6 A

BKR_XSB PPSS1

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3H-A
Sensor/Trip 3200.0 A
Settings Phase
    LTPU 1 (3200A)
    LTD 6
    STPU 1.5 (4800A)
    STD-I2T 0.11 (I^s T Off)
    INST 15 (48000A)

BKR_PPSS1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
    LTPU, (0.4 - 1 x In) 1.000 (3200A)
    LTD-I2T, (2-24s) 2
    STPU, (200-1200A SF) 2.000 (6400A)
    STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
    INST, (200-1200A STD) OFF

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

Legend:
BKR_SERVICE #1 - T1-PPSS1
RLY_SERVICE #1 - T1-PPSS1
CBL-0004
TX_PPSS1
BKR_XSB PPSS1
CBL-0005
BKR_PPSS1 - MAIN

TCC Name: TCC_005_TX_PPSS1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #1 - T2-PPSS2 - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2.5 (750A)
  SDT 0.45 (sec)
  INST 12.5 (3750A)

SERVICE #1 - T2-PPSS2 - Phase
TX_CHILLER [PPSS2]

TX_CHILLER [PPSS2]

2000.0 kVA
Z=5.6400 %
Pri FLA 277.6 A

BKR_XSB PPSS2 - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E4S-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 1 (3200A)
  LTD 6
  STPU 2.02 (6464A)
  STD-I2T 0.16 (I^s T Off)
  INST 15 (48000A)

BKR_1500 HP CHILLER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, DT 1150/1150i
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.800 (2560A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 1.500 (3840A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (1600A NF) 2.00 (6400A)

TX Inrush

Legend (right panel)
- BKR_SERVICE #1 - T2-PPSS2
- RLY_SERVICE #1 - T2-PPSS2
- CBL-0014
- TX_CHILLER [PPSS2]
- BKR_XSB PPSS2
- CBL-0007
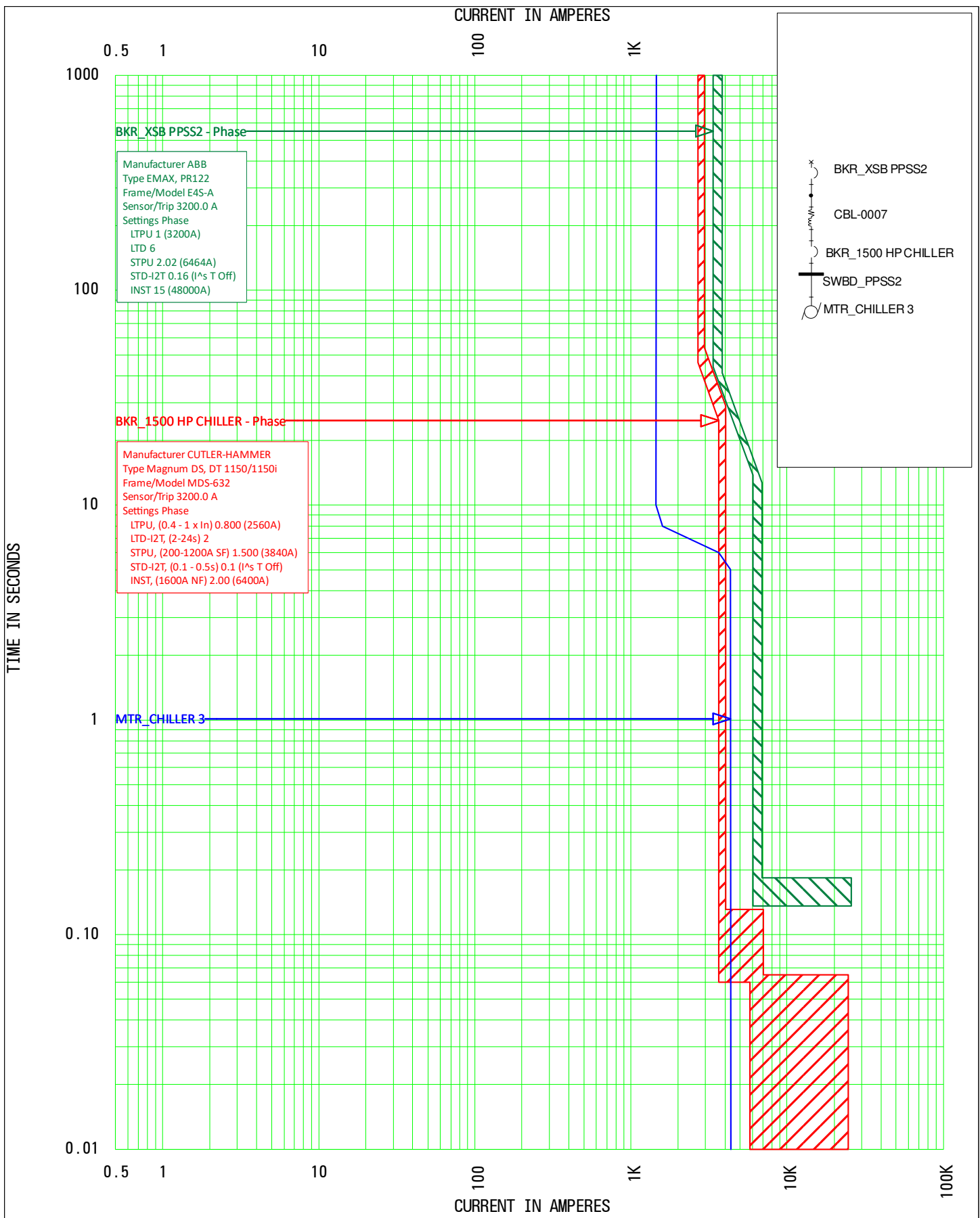- BKR_1500 HP CHILLER

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_006_TX_PPSS2
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 4160V
Lowell General Hospital
Main Campus
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_XSB PPSS2 - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E4S-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 1 (3200A)
  LTD 6
  STPU 2.02 (6464A)
  STD-I2T 0.16 (I^s T Off)
  INST 15 (48000A)

BKR_1500 HP CHILLER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, DT 1150/1150i
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.800 (2560A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 1.500 (3840A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (1600A NF) 2.00 (6400A)

MTR_CHILLER 3

TIME IN SECONDS

CURRENT IN AMPERES

BKR_XSB PPSS2
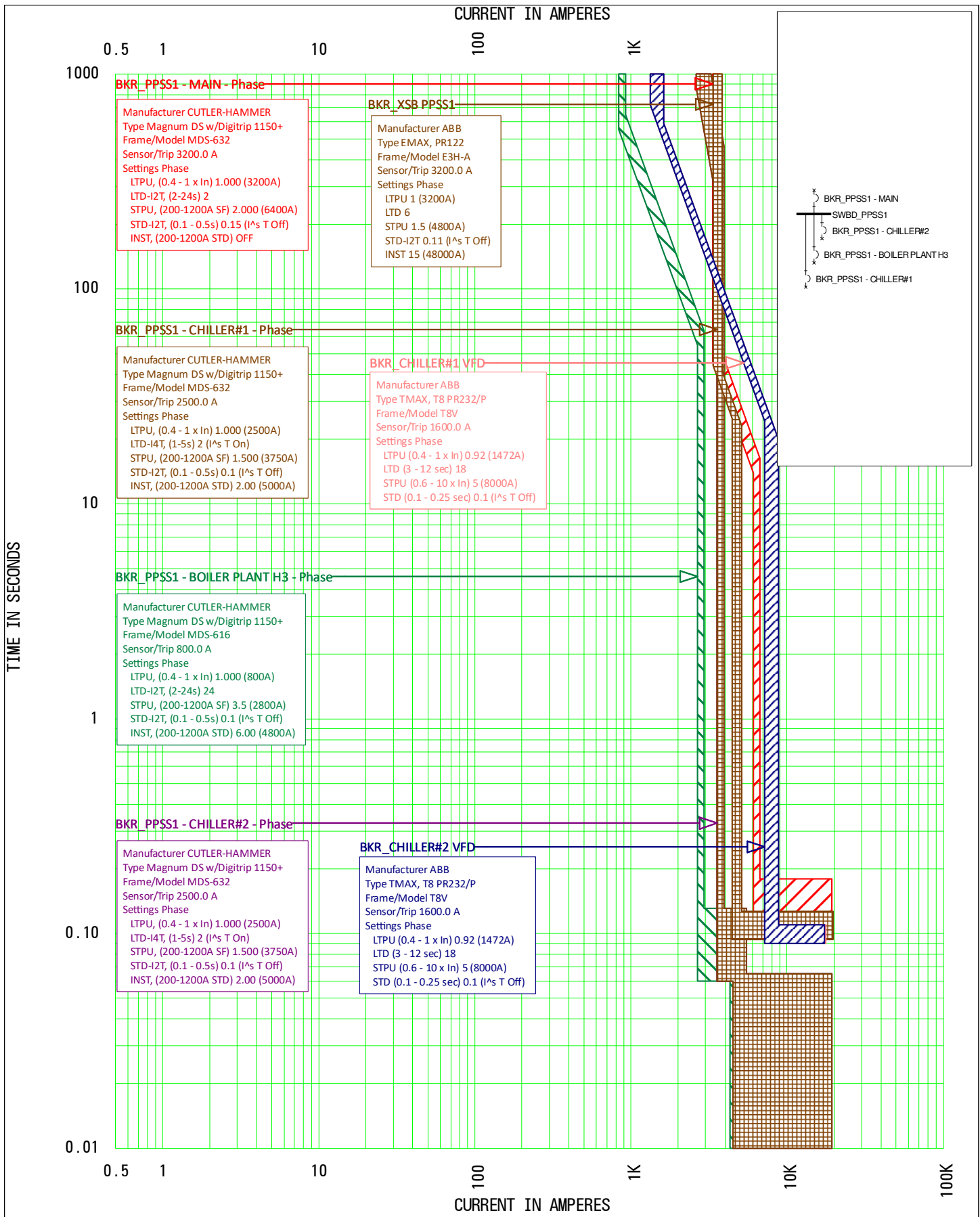
CBL-0007

BKR_1500 HP CHILLER

SWBD_PPSS2

MTR_CHILLER 3

TCC Name: TCC_007_MTR_CHILLER 3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (3200A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 2.000 (6400A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_XSB PPSS1

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3H-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 1 (3200A)
  LTD 6
  STPU 1.5 (4800A)
  STD-I2T 0.11 (I^s T Off)
  INST 15 (48000A)

BKR_PPSS1 - CHILLER#1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2500A)
  LTD-I4T, (1-5s) 2 (I^s T On)
  STPU, (200-1200A SF) 1.500 (3750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 2.00 (5000A)

BKR_CHILLER#1 VFD

Manufacturer ABB
Type TMAX, T8 PR232/P
Frame/Model T8V
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.4 - 1 x In) 0.92 (1472A)
  LTD (3 - 12 sec) 18
  STPU (0.6 - 10 x In) 5 (8000A)
  STD (0.1 - 0.25 sec) 0.1 (I^s T Off)

BKR_PPSS1 - BOILER PLANT H3 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 24
  STPU, (200-1200A SF) 3.5 (2800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (4800A)

BKR_PPSS1 - CHILLER#2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2500A)
  LTD-I4T, (1-5s) 2 (I^s T On)
  STPU, (200-1200A SF) 1.500 (3750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 2.00 (5000A)

BKR_CHILLER#2 VFD

Manufacturer ABB
Type TMAX, T8 PR232/P
Frame/Model T8V
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.4 - 1 x In) 0.92 (1472A)
  LTD (3 - 12 sec) 18
  STPU (0.6 - 10 x In) 5 (8000A)
  STD (0.1 - 0.25 sec) 0.1 (I^s T Off)

Legend:
- BKR_PPSS1 - MAIN
- SWBD_PPSS1
- BKR_PPSS1 - CHILLER#2
- BKR_PPSS1 - BOILER PLANT H3
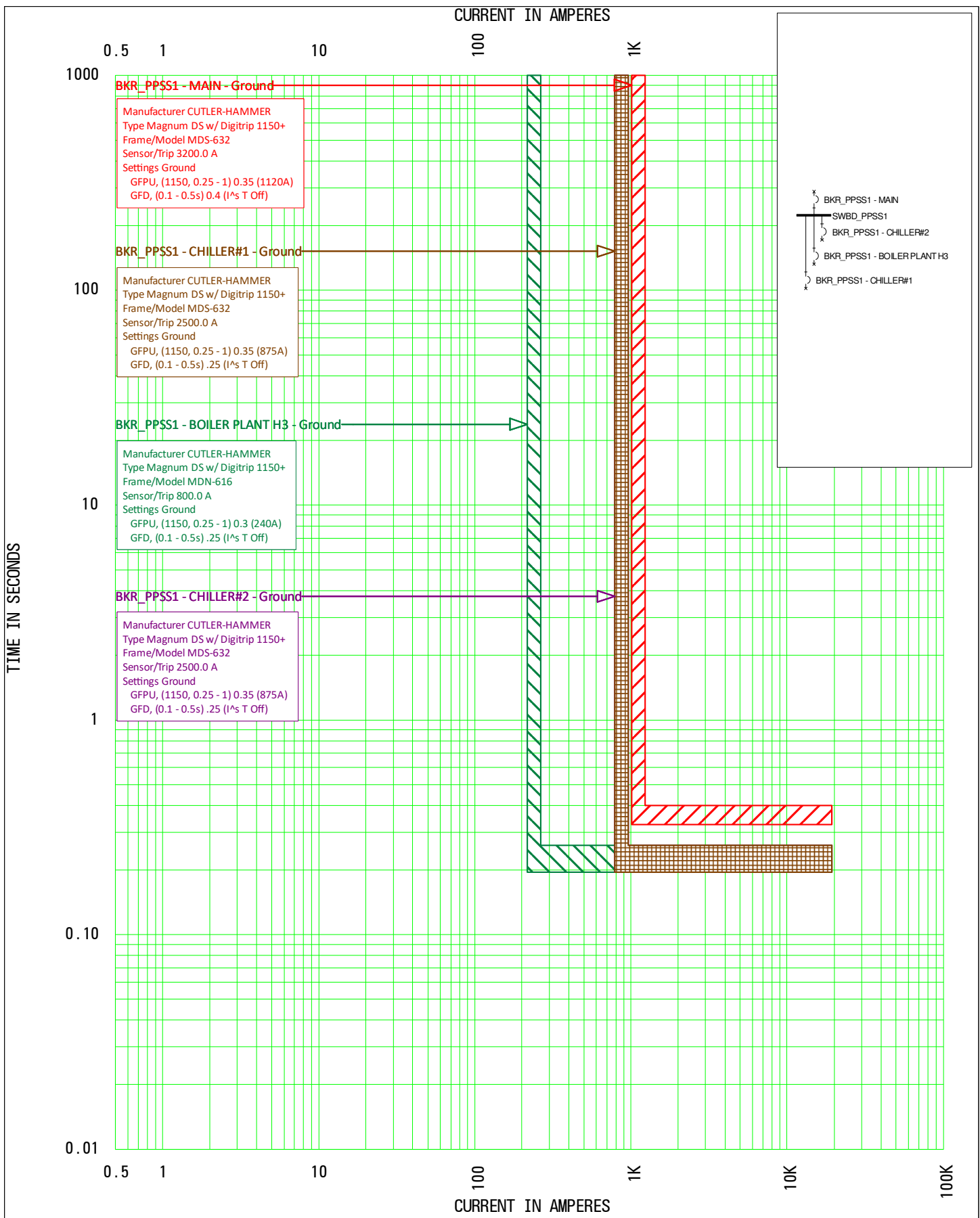- BKR_PPSS1 - CHILLER#1

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_008a_SWBD_PPSS1_ph
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
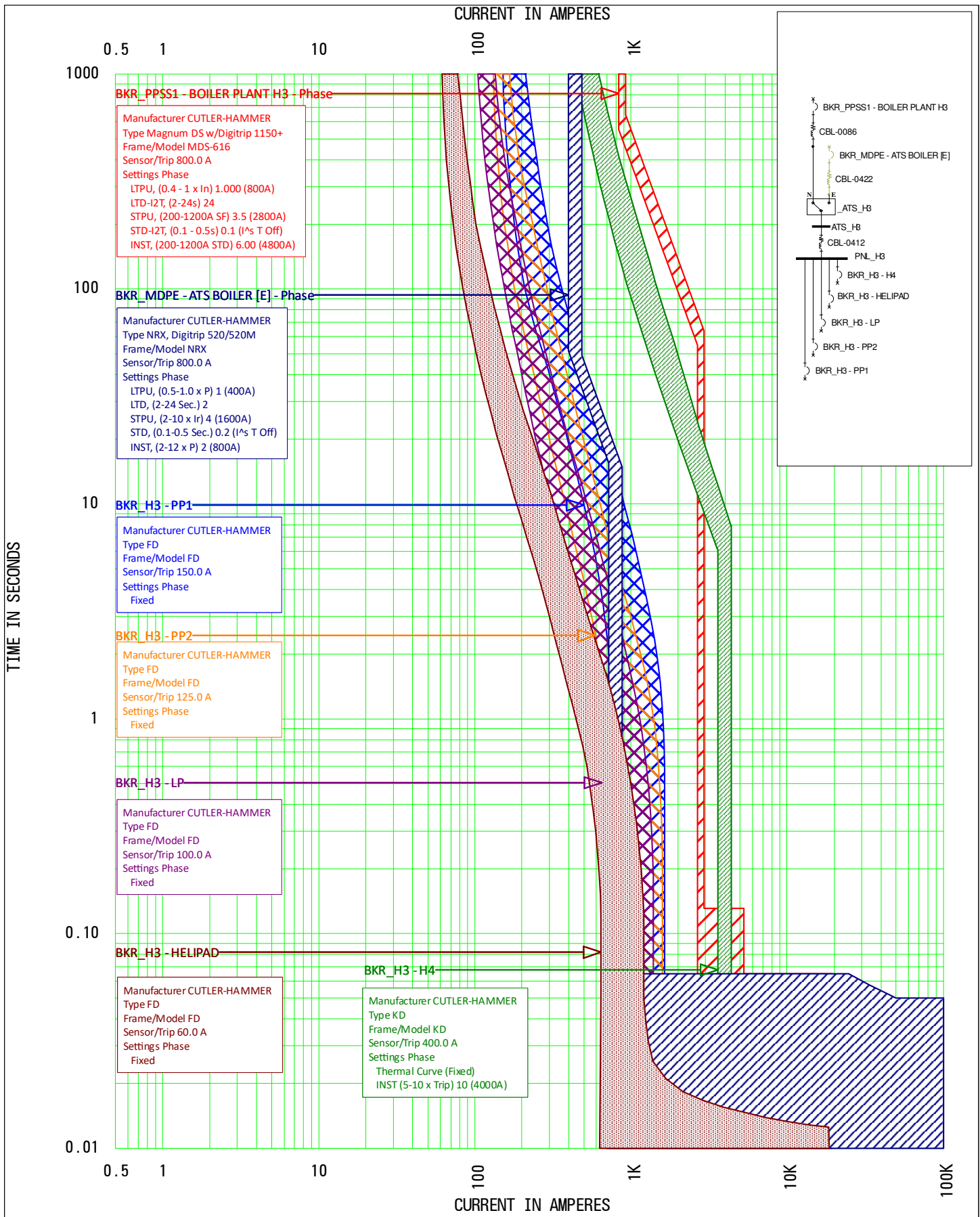Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - MAIN - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.35 (1120A)
  GFD, (0.1 - 0.5s) 0.4 (I^s T Off)

BKR_PPSS1 - CHILLER#1 - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.35 (875A)
  GFD, (0.1 - 0.5s) .25 (I^s T Off)

BKR_PPSS1 - BOILER PLANT H3 - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDN-616
Sensor/Trip 800.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.3 (240A)
  GFD, (0.1 - 0.5s) .25 (I^s T Off)

BKR_PPSS1 - CHILLER#2 - Ground

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 2500.0 A
Settings Ground
  GFPU, (1150, 0.25 - 1) 0.35 (875A)
  GFD, (0.1 - 0.5s) .25 (I^s T Off)

TIME IN SECONDS

BKR_PPSS1 - MAIN
SWBD_PPSS1
BKR_PPSS1 - CHILLER#2
BKR_PPSS1 - BOILER PLANT H3
BKR_PPSS1 - CHILLER#1

CURRENT IN AMPERES

TCC Name: TCC_008b_SWBD_PPSS1_ne
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
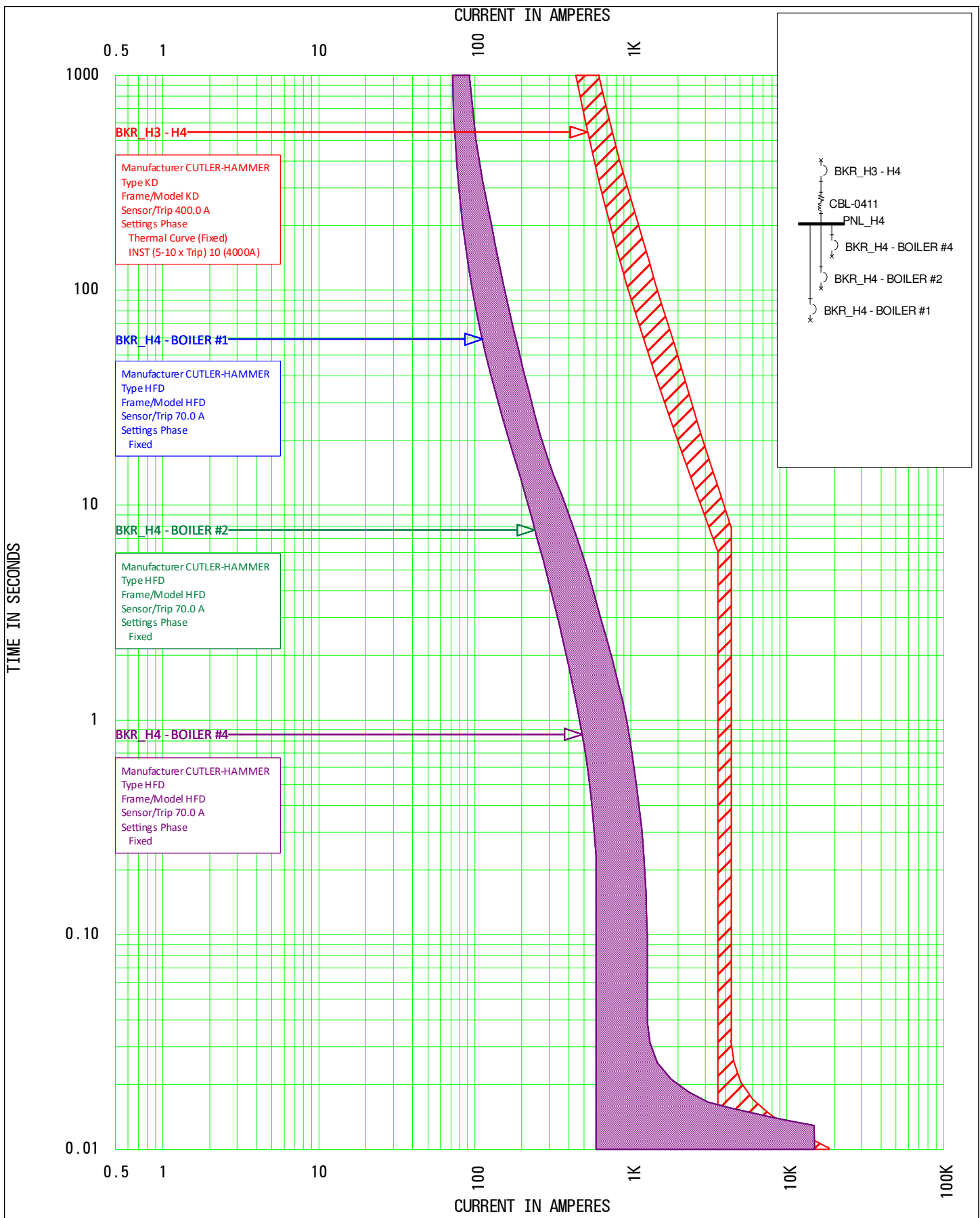Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - BOILER PLANT H3 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 24
  STPU, (200-1200A SF) 3.5 (2800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (4800A)

BKR_MDPE - ATS BOILER [E] - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 1 (400A)
  LTD, (2-24 Sec.) 2
  STPU, (2-10 x Ir) 4 (1600A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) 2 (800A)

BKR_H3 - PP1

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 150.0 A
Settings Phase
  Fixed

BKR_H3 - PP2

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_H3 - LP

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_H3 - HELIPAD

Manufacturer CUTLER-HAMMER
Type FD
Frame/Model FD
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_H3 - H4

Manufacturer CUTLER-HAMMER
Type KD
Frame/Model KD
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (4000A)

One-line diagram:
- BKR_PPSS1 - BOILER PLANT H3
- CBL-0086
- BKR_MDPE - ATS BOILER [E]
- CBL-0422
- _ATS_H3
- ATS_H3
- CBL-0412
- PNL_H3
- BKR_H3 - H4
- BKR_H3 - HELIPAD
- BKR_H3 - LP
- BKR_H3 - PP2
- BKR_H3 - PP1

TIME IN SECONDS (vertical axis: 0.01 to 1000)

CURRENT IN AMPERES (horizontal axis: 0.5 to 100K)

TCC Name: TCC_010_PNL_H3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
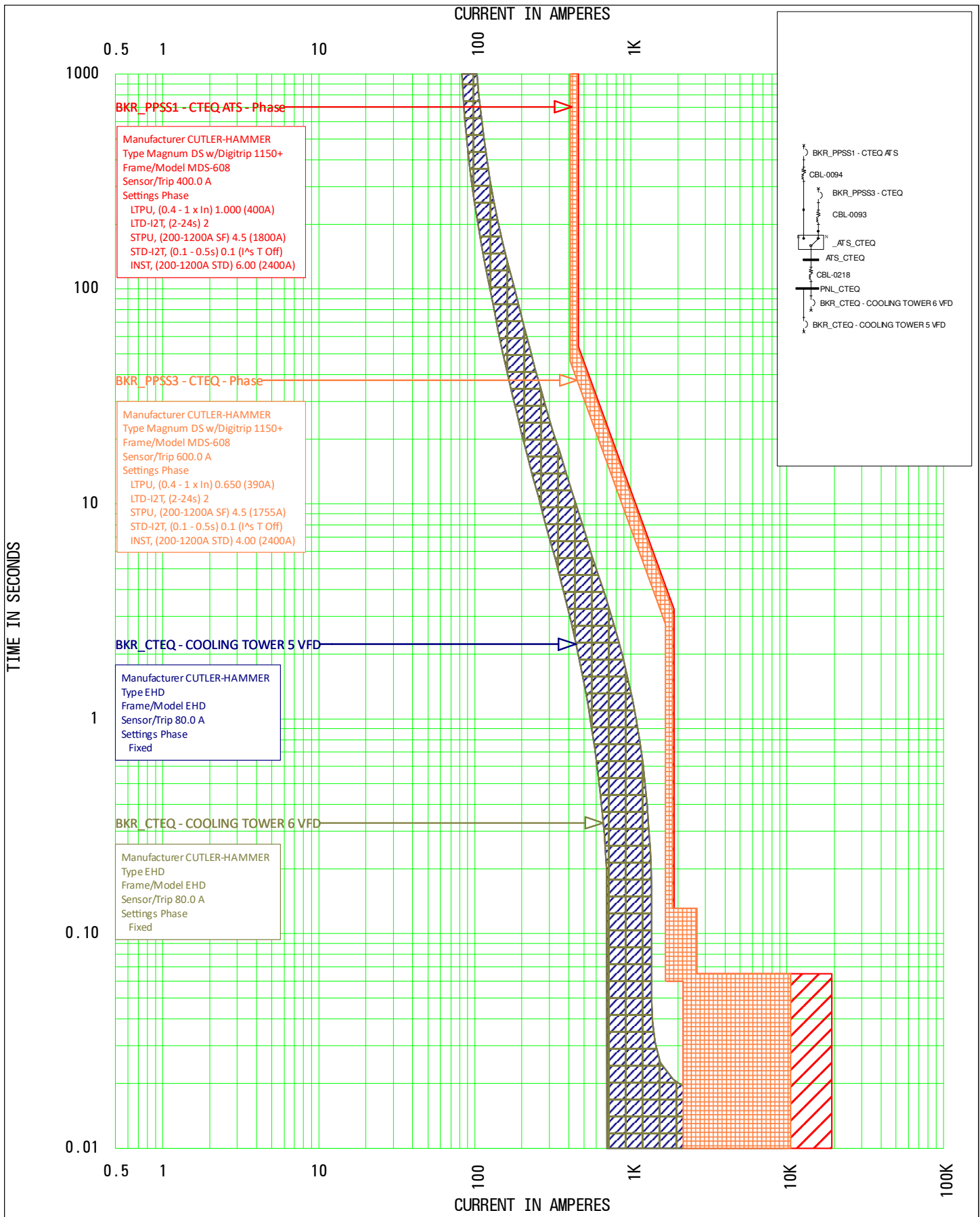Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_H3 - H4

Manufacturer CUTLER-HAMMER
Type KD
Frame/Model KD
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (4000A)

BKR_H4 - BOILER #1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_H4 - BOILER #2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_H4 - BOILER #4

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 70.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_H3 - H4
- CBL-0411
- PNL_H4
- BKR_H4 - BOILER #4
- BKR_H4 - BOILER #2
- BKR_H4 - BOILER #1

TCC Name: TCC_011_PNL_H4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
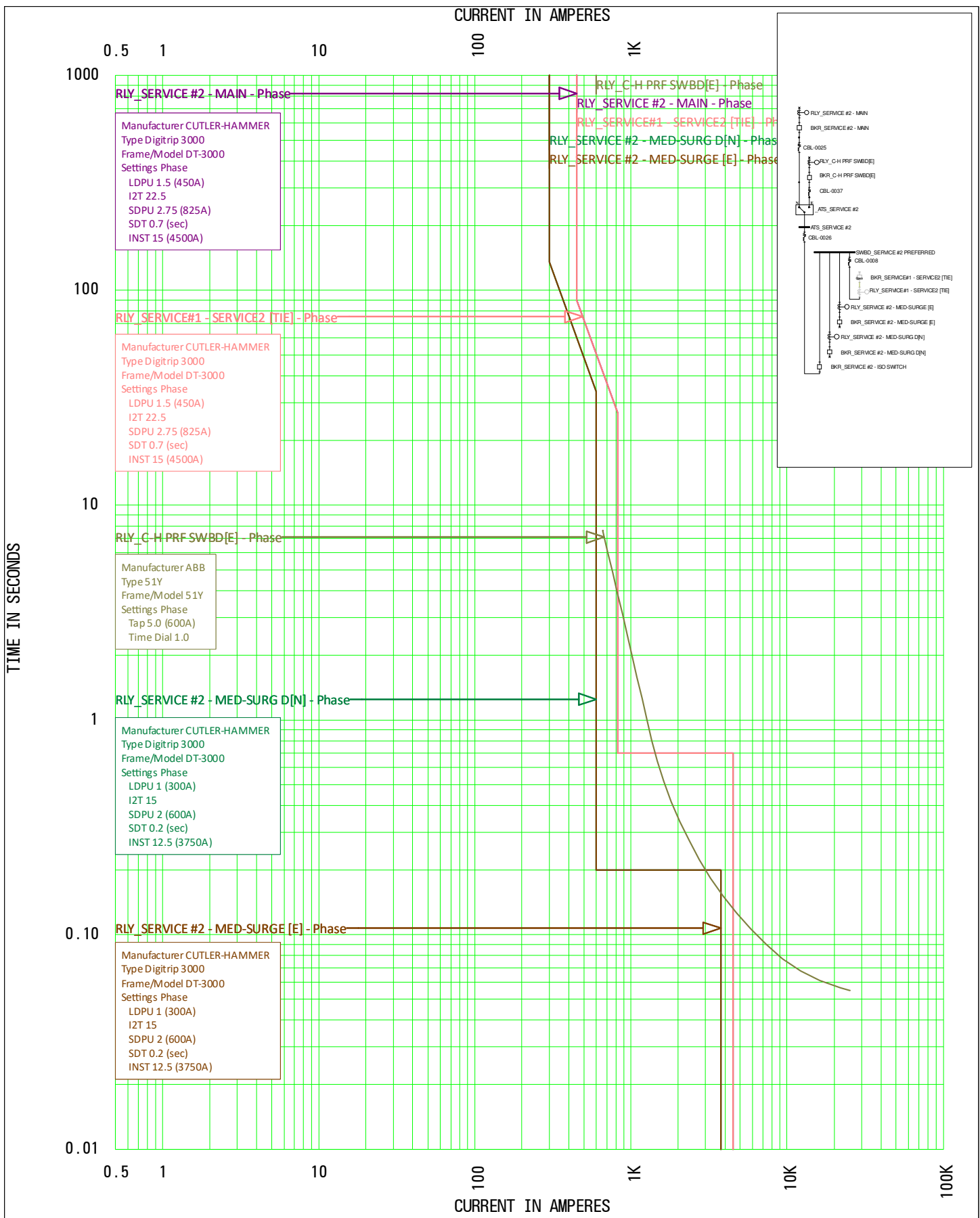Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS1 - CTEQ ATS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.5 (1800A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (2400A)

BKR_PPSS3 - CTEQ - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.650 (390A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.5 (1755A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 4.00 (2400A)

BKR_CTEQ - COOLING TOWER 5 VFD

Manufacturer CUTLER-HAMMER
Type EHD
Frame/Model EHD
Sensor/Trip 80.0 A
Settings Phase
  Fixed

BKR_CTEQ - COOLING TOWER 6 VFD

Manufacturer CUTLER-HAMMER
Type EHD
Frame/Model EHD
Sensor/Trip 80.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_PPSS1 - CTEQ ATS
CBL-0094
BKR_PPSS3 - CTEQ
CBL-0093
_ATS_CTEQ
ATS_CTEQ
CBL-0218
PNL_CTEQ
BKR_CTEQ - COOLING TOWER 6 VFD
BKR_CTEQ - COOLING TOWER 5 VFD

TCC Name: TCC_013_PNL_CTEQ
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
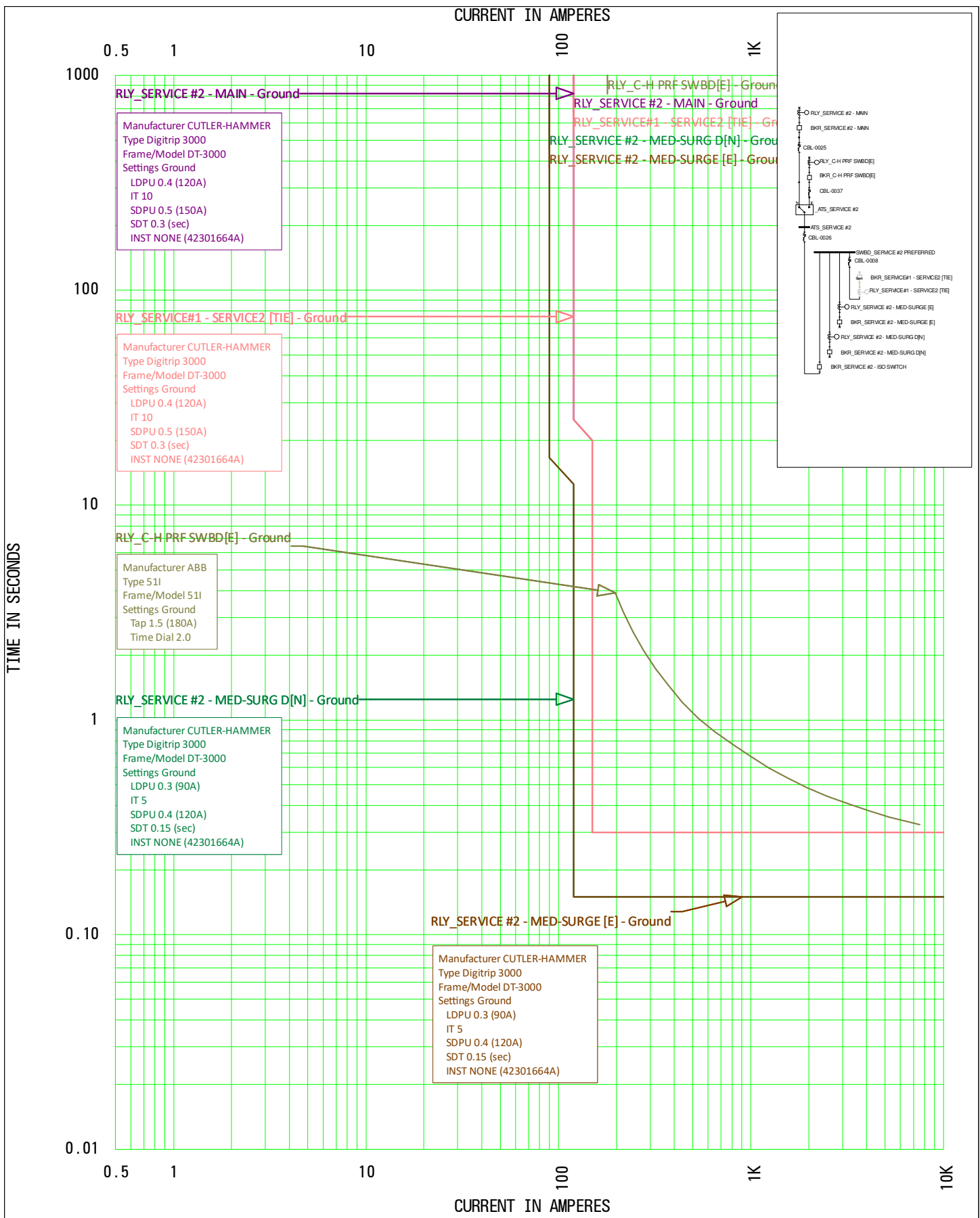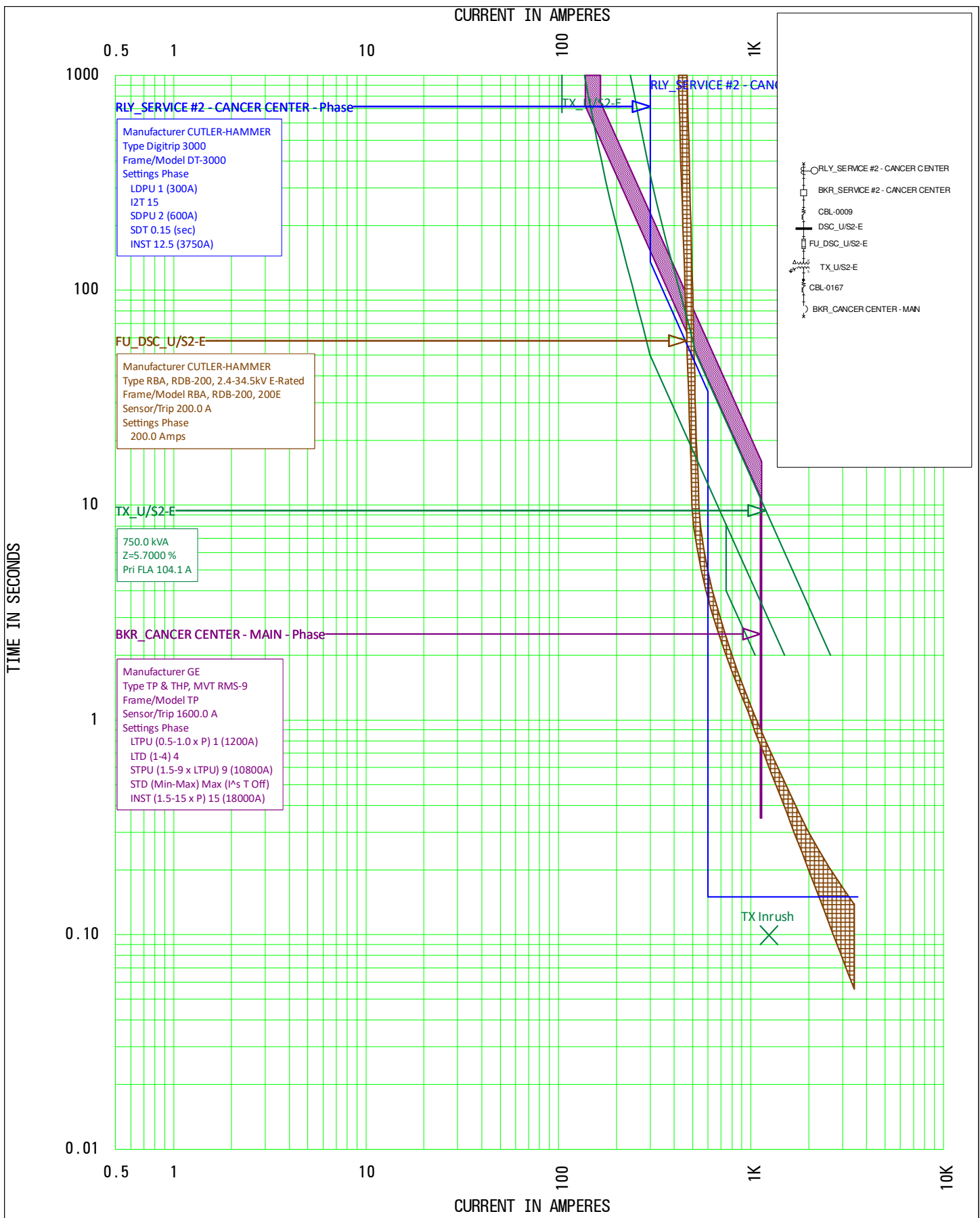Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - MAIN - Phase

RLY_C-H PRF SWBD[E] - Phase
RLY_SERVICE #2 - MAIN - Phase
RLY_SERVICE#1 - SERVICE2 [TIE] - Ph
RLY_SERVICE #2 - MED-SURG D[N] - Phas
RLY_SERVICE #2 - MED-SURGE [E] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.5 (450A)
  I2T 22.5
  SDPU 2.75 (825A)
  SDT 0.7 (sec)
  INST 15 (4500A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1.5 (450A)
  I2T 22.5
  SDPU 2.75 (825A)
  SDT 0.7 (sec)
  INST 15 (4500A)

RLY_C-H PRF SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 5.0 (600A)
  Time Dial 1.0

RLY_SERVICE #2 - MED-SURG D[N] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.2 (sec)
  INST 12.5 (3750A)

RLY_SERVICE #2 - MED-SURGE [E] - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.2 (sec)
  INST 12.5 (3750A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
RLY_SERVICE #2 - MAIN
BKR_SERVICE #2 - MAIN
CBL-0025
RLY_C-H PRF SWBD[E]
BKR_C-H PRF SWBD[E]
CBL-0037
ATS_SERVICE #2
ATS_SERVICE #2
CBL-0026
SWBD_SERVICE #2 PREFERRED
CBL-0008
BKR_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE #2 - MED-SURGE [E]
BKR_SERVICE #2 - MED-SURGE [E]
RLY_SERVICE #2 - MED-SURG D[N]
BKR_SERVICE #2 - MED-SURG D[N]
BKR_SERVICE #2 - ISO SWITCH

TCC Name: TCC_017a_SWBD_SERVICE #2 PREFERRED_ph
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 4160V
Lowell General Hospital
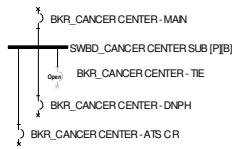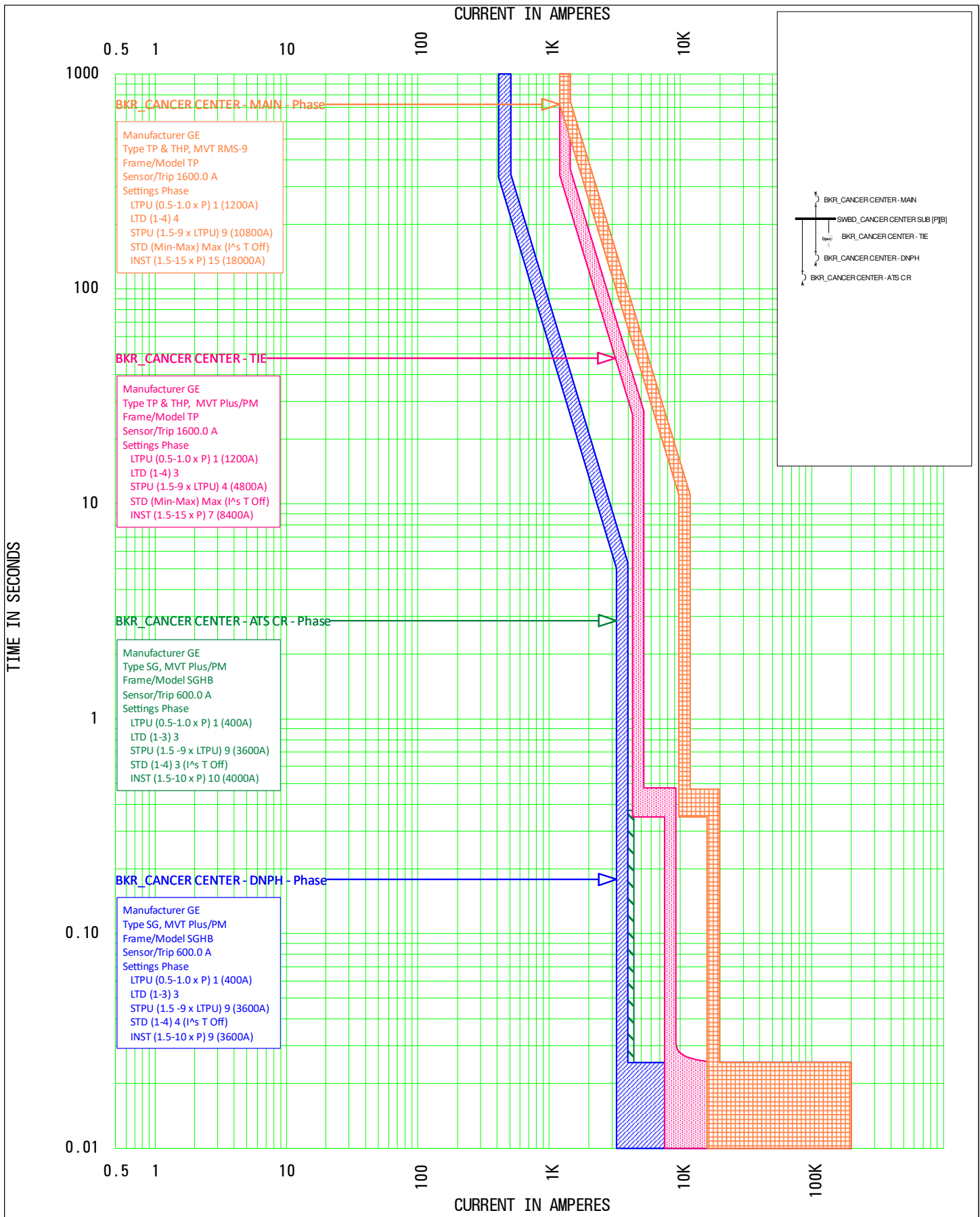Main Campus
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - MAIN - Ground

RLY_C-H PRF SWBD[E] - Ground
RLY_SERVICE #2 - MAIN - Ground
RLY_SERVICE#1 - SERVICE2 [TIE] - Ground
RLY_SERVICE #2 - MED-SURG D[N] - Ground
RLY_SERVICE #2 - MED-SURGE [E] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.4 (120A)
  IT 10
  SDPU 0.5 (150A)
  SDT 0.3 (sec)
  INST NONE (42301664A)

RLY_SERVICE#1 - SERVICE2 [TIE] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.4 (120A)
  IT 10
  SDPU 0.5 (150A)
  SDT 0.3 (sec)
  INST NONE (42301664A)

RLY_C-H PRF SWBD[E] - Ground

Manufacturer ABB
Type 51I
Frame/Model 51I
Settings Ground
  Tap 1.5 (180A)
  Time Dial 2.0

RLY_SERVICE #2 - MED-SURG D[N] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 5
  SDPU 0.4 (120A)
  SDT 0.15 (sec)
  INST NONE (42301664A)

RLY_SERVICE #2 - MED-SURGE [E] - Ground

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Ground
  LDPU 0.3 (90A)
  IT 5
  SDPU 0.4 (120A)
  SDT 0.15 (sec)
  INST NONE (42301664A)

TIME IN SECONDS

CURRENT IN AMPERES

RLY_SERVICE #2 - MAIN
BKR_SERVICE #2 - MAIN
CBL-0025
RLY_C-H PRF SWBD[E]
BKR_C-H PRF SWBD[E]
CBL-0037
ATS_SERVICE #2
ATS_SERVICE #2
CBL-0026
SWBD_SERVICE #2 PREFERRED
CBL-0008
BKR_SERVICE#1 - SERVICE2 [TIE]
RLY_SERVICE #1 - SERVICE2 [TIE]
RLY_SERVICE #2 - MED-SURGE [E]
BKR_SERVICE #2 - MED-SURGE [E]
RLY_SERVICE #2 - MED-SURG D[N]
BKR_SERVICE #2 - MED-SURG D[N]
BKR_SERVICE #2 - ISO SWITCH

TCC Name: TCC_017b_SWBD_SERVICE #2 PREFERRED_ne
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
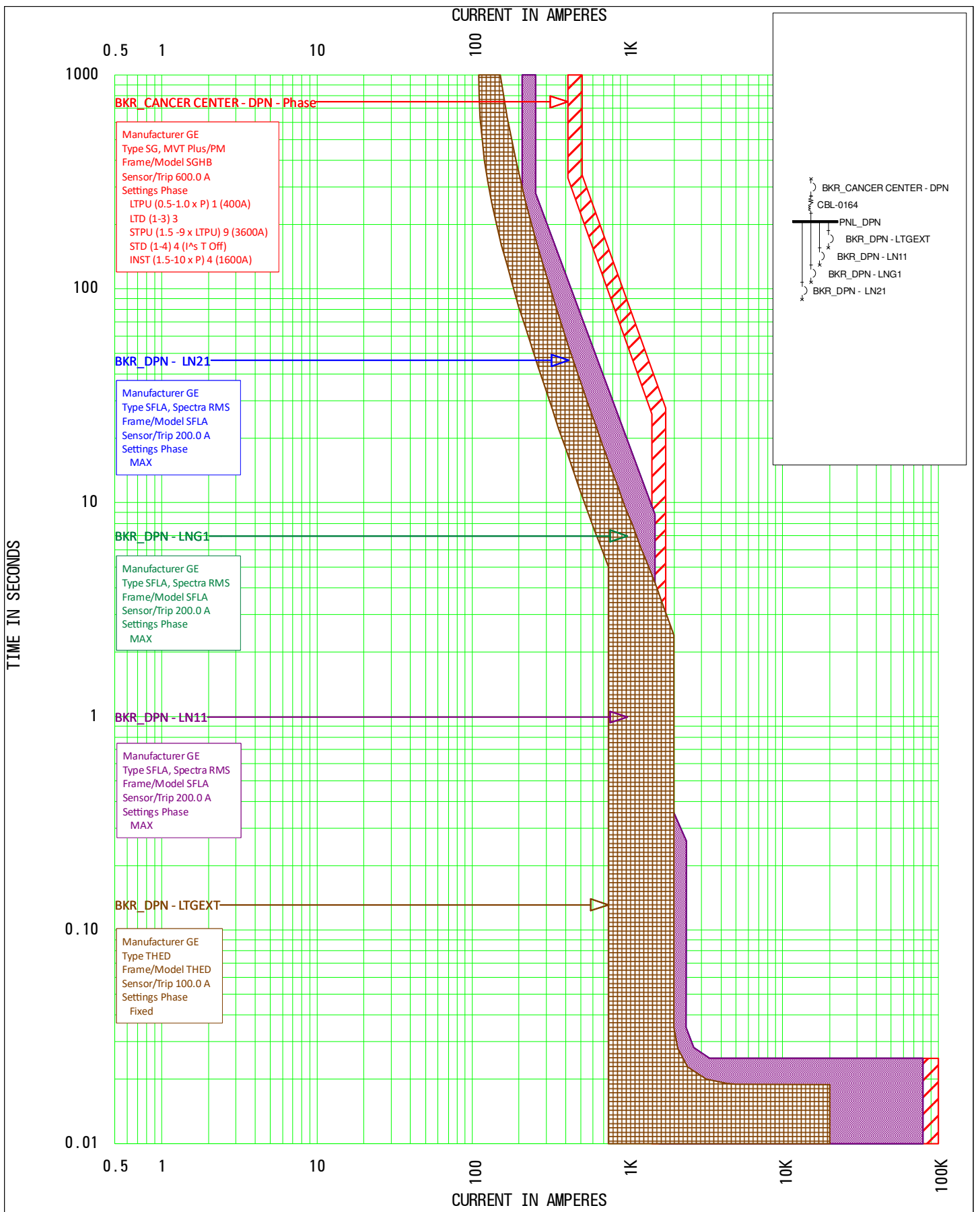Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - CANCER CENTER - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

RLY_SERVICE #2 - CANC

TX_U/S2-E

FU_DSC_U/S2-E

Manufacturer CUTLER-HAMMER
Type RBA, RDB-200, 2.4-34.5kV E-Rated
Frame/Model RBA, RDB-200, 200E
Sensor/Trip 200.0 A
Settings Phase
  200.0 Amps

TX_U/S2-E

750.0 kVA
Z=5.7000 %
Pri FLA 104.1 A

BKR_CANCER CENTER - MAIN - Phase

Manufacturer GE
Type TP & THP, MVT RMS-9
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (1200A)
  LTD (1-4) 4
  STPU (1.5-9 x LTPU) 9 (10800A)
  STD (Min-Max) Max (I^s T Off)
  INST (1.5-15 x P) 15 (18000A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

RLY_SERVICE #2 - CANCER CENTER
BKR_SERVICE #2 - CANCER CENTER
CBL-0009
DSC_U/S2-E
FU_DSC_U/S2-E
TX_U/S2-E
CBL-0167
BKR_CANCER CENTER - MAIN

TCC Name: TCC_018_TX_U/S2-E
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
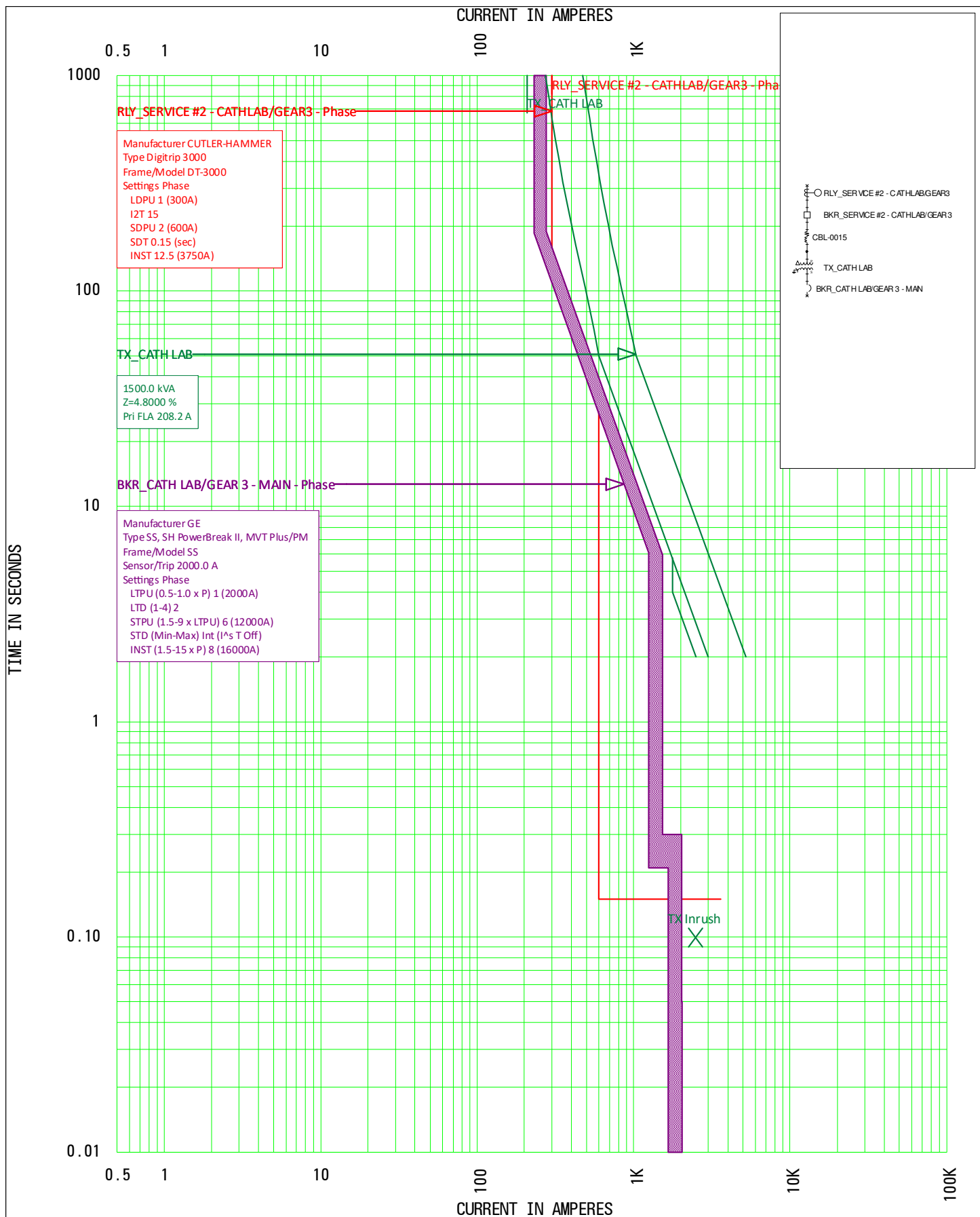Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_CANCER CENTER - MAIN - Phase

Manufacturer GE
Type TP & THP, MVT RMS-9
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (1200A)
  LTD (1-4) 4
  STPU (1.5-9 x LTPU) 9 (10800A)
  STD (Min-Max) Max (I^s T Off)
  INST (1.5-15 x P) 15 (18000A)

BKR_CANCER CENTER - TIE

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (1200A)
  LTD (1-4) 3
  STPU (1.5-9 x LTPU) 4 (4800A)
  STD (Min-Max) Max (I^s T Off)
  INST (1.5-15 x P) 7 (8400A)

BKR_CANCER CENTER - ATS CR - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (400A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (3600A)
  STD (1-4) 3 (I^s T Off)
  INST (1.5-10 x P) 10 (4000A)

BKR_CANCER CENTER - DNPH - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (400A)
  LTD (1-3) 3
  STPU (1.5 -9 x LTPU) 9 (3600A)
  STD (1-4) 4 (I^s T Off)
  INST (1.5-10 x P) 9 (3600A)

CURRENT IN AMPERES

BKR_CANCER CENTER - MAIN
SWBD_CANCER CENTER SUB [P][B]
Open BKR_CANCER CENTER - TIE
BKR_CANCER CENTER - DNPH
BKR_CANCER CENTER - ATS CR

TCC Name: TCC_019_SWBD_CANCER CENTER SUB [P]
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - DPN - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
   LTPU (0.5-1.0 x P) 1 (400A)
   LTD (1-3) 3
   STPU (1.5 -9 x LTPU) 9 (3600A)
   STD (1-4) 4 (I^s T Off)
   INST (1.5-10 x P) 4 (1600A)

BKR_DPN - LN21

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
   MAX

BKR_DPN - LNG1

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
   MAX

BKR_DPN - LN11

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
   MAX

BKR_DPN - LTGEXT

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 100.0 A
Settings Phase
   Fixed

TIME IN SECONDS

CURRENT IN AMPERES

Legend (one-line diagram):
- BKR_CANCER CENTER - DPN
- CBL-0164
- PNL_DPN
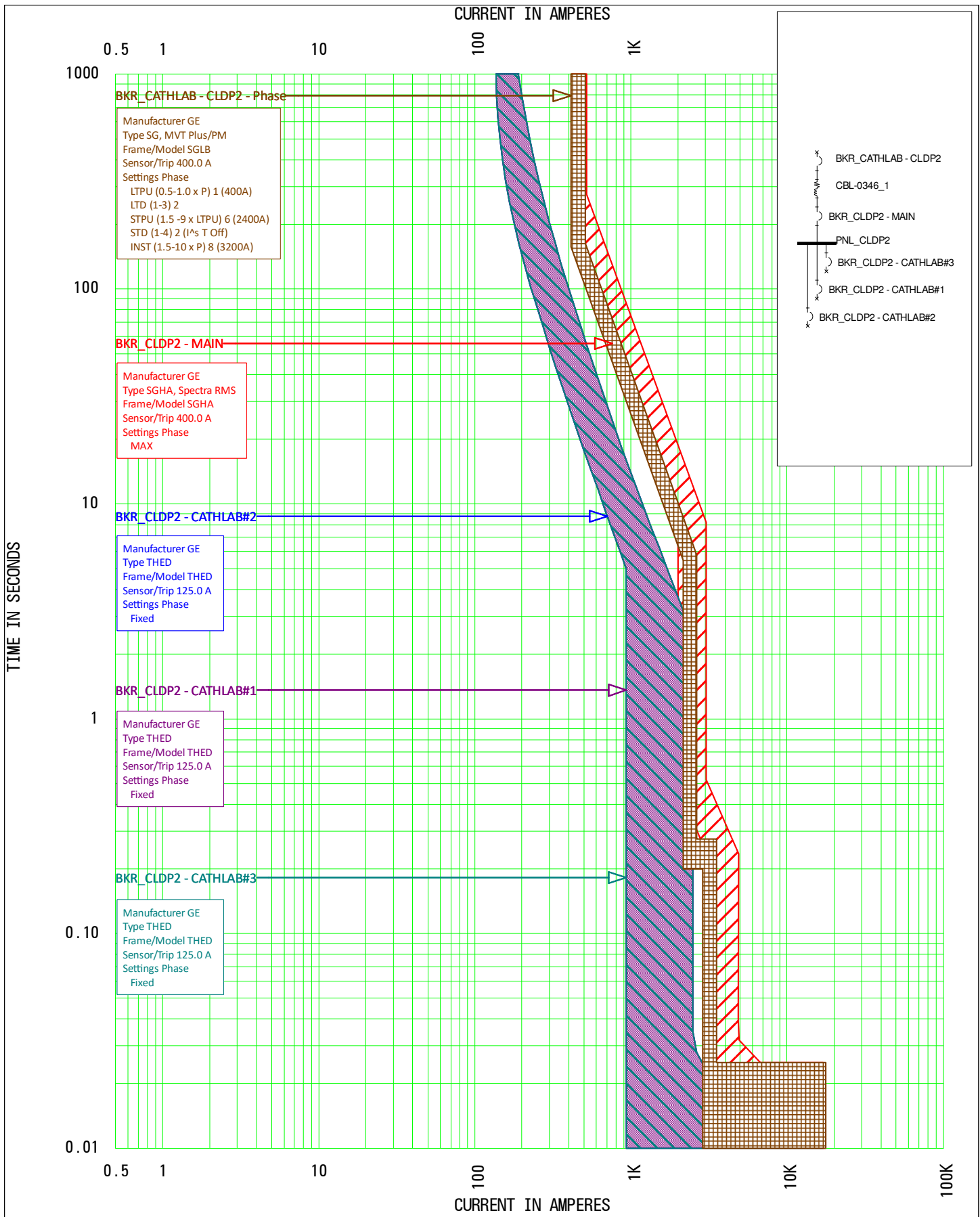- BKR_DPN - LTGEXT
- BKR_DPN - LN11
- BKR_DPN - LNG1
- BKR_DPN - LN21

TCC Name: TCC_020_PNL_DPN
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #2 - CATHLAB/GEAR3 - Phase

RLY_SERVICE #2 - CATHLAB/GEAR3 - Phase

TX_CATH LAB

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

TX_CATH LAB

1500.0 kVA
Z=4.8000 %
Pri FLA 208.2 A

BKR_CATH LAB/GEAR 3 - MAIN - Phase

Manufacturer GE
Type SS, SH PowerBreak II, MVT Plus/PM
Frame/Model SS
Sensor/Trip 2000.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (2000A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 6 (12000A)
  STD (Min-Max) Int (I^s T Off)
  INST (1.5-15 x P) 8 (16000A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

RLY_SERVICE #2 - CATHLAB/GEAR3 - Pha

RLY_SERVICE #2 - CATHLAB/GEAR3
BKR_SERVICE #2 - CATHLAB/GEAR3
CBL-0015
TX_CATH LAB
BKR_CATH LAB/GEAR 3 - MAN

TCC Name: TCC_021_TX_CATH LAB
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
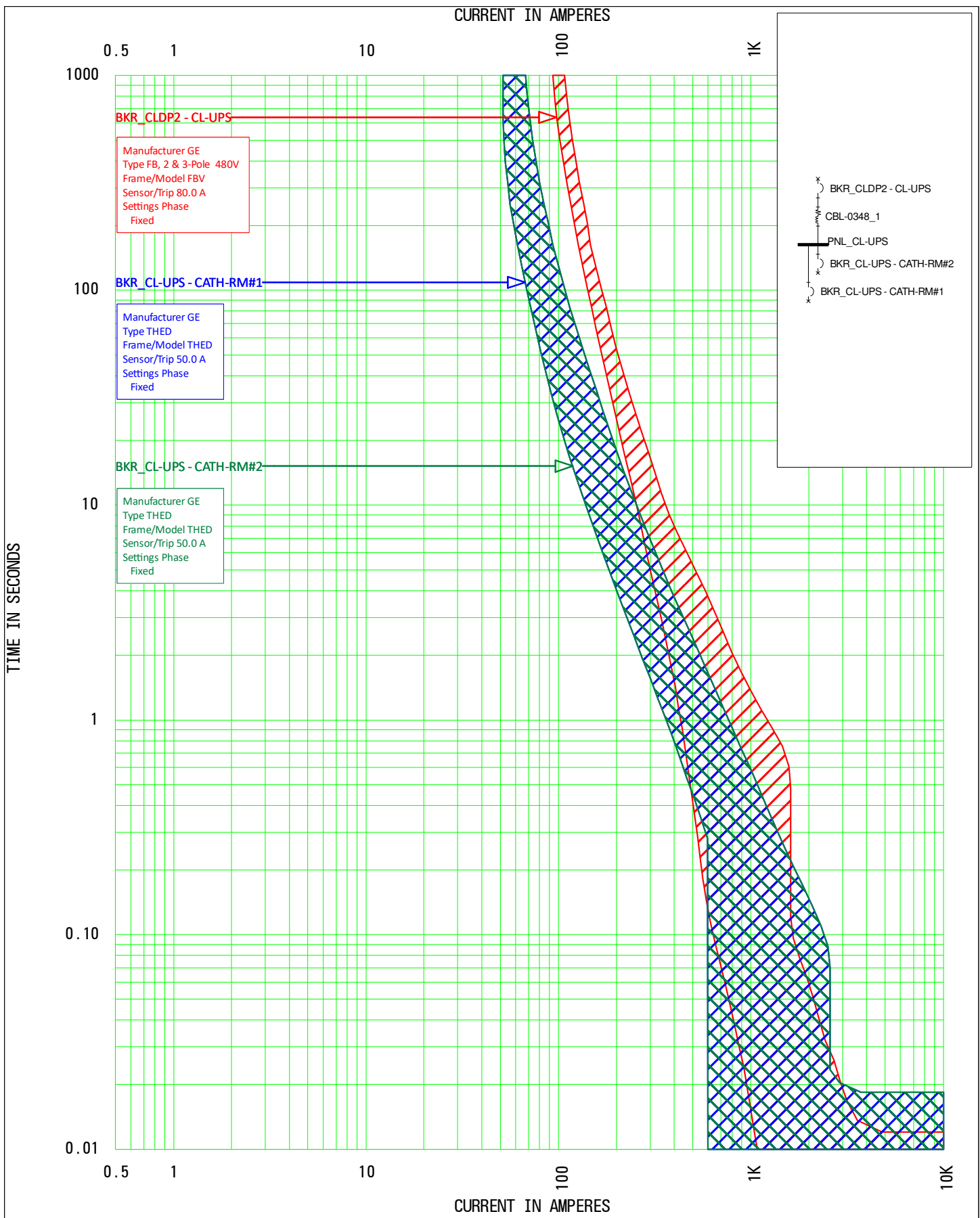Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATH LAB/GEAR 3 - MAIN - Phase

Manufacturer GE
Type SS, SH PowerBreak II, MVT Plus/PM
Frame/Model SS
Sensor/Trip 2000.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (2000A)
  LTD (1-4) 2
  STPU (1.5-9 x LTPU) 6 (12000A)
  STD (Min-Max) Int (I^s T Off)
  INST (1.5-15 x P) 8 (16000A)

BKR_CATHLAB - O.R CHILLER - Phase

Manufacturer GE
Type SKLB, MVT+PM
Frame/Model 800
Sensor/Trip 700.0 A
Settings Phase
  LTPU 1.0 (700A)
  LTD 2
  STPU 6.0 (4200A)
  STD-I2T 2 (I^s T Off)
  INST 7 (4900A)

BKR_CATHLAB - DPE-DPN2

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 600.0 A
Settings Phase
  MAX

BKR_CATHLAB - X-RAY GEAR 2

Manufacturer GE
Type SKLA, Spectra RMS
Frame/Model SKLA
Sensor/Trip 800.0 A
Settings Phase
  MAX

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CATH LAB/GEAR 3 - MAIN

PNL_CATH LAB/GEAR 3

BKR_CATHLAB - X-RAY GEAR 2

BKR_CATHLAB - DPE-DPN2

BKR_CATHLAB - O.R CHILLER

TCC Name: TCC_022_PNL_CATH LAB/GEAR 3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
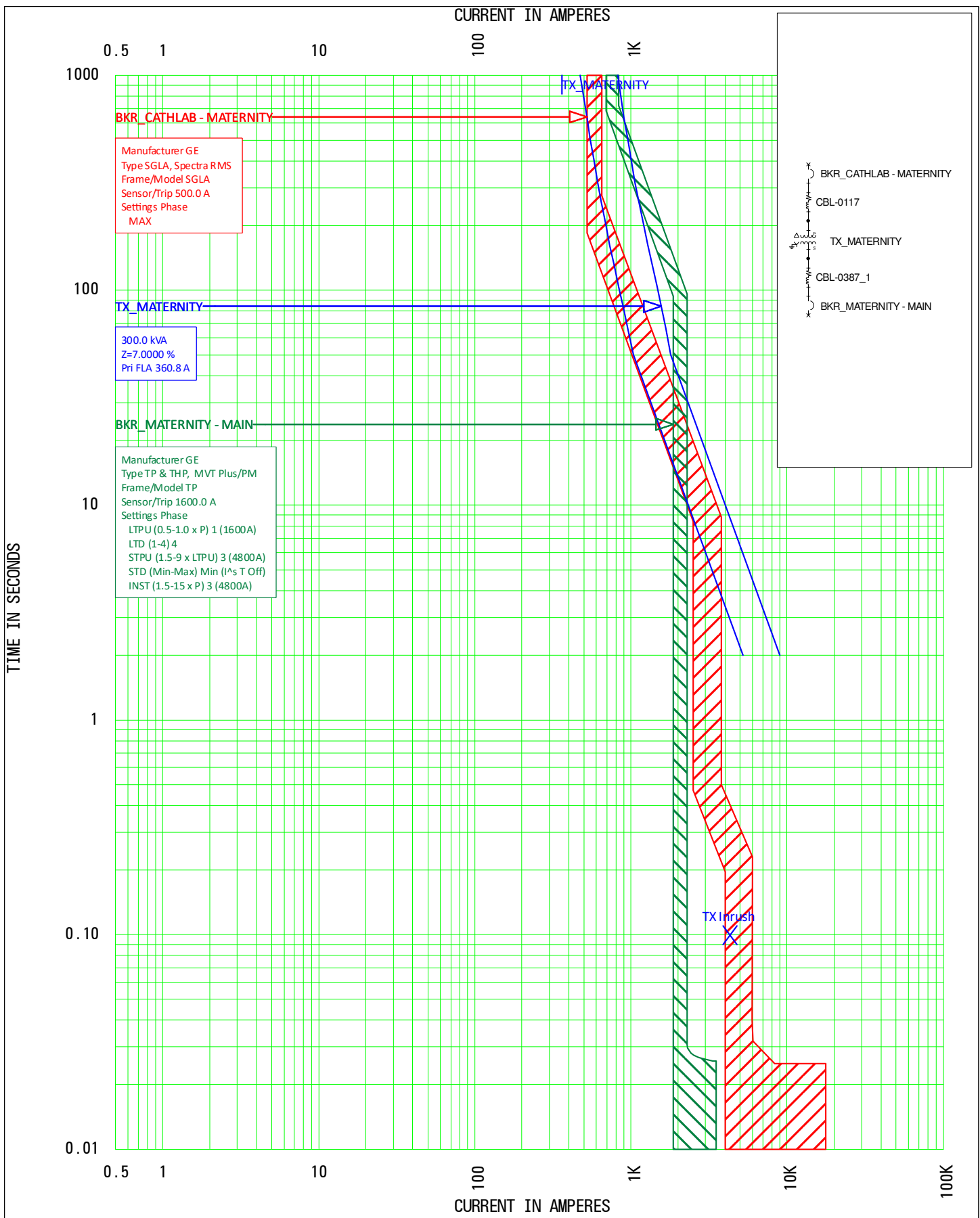Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATHLAB - CLDP2 - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGLB
Sensor/Trip 400.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (400A)
  LTD (1-3) 2
  STPU (1.5 -9 x LTPU) 6 (2400A)
  STD (1-4) 2 (I^s T Off)
  INST (1.5-10 x P) 8 (3200A)

BKR_CLDP2 - MAIN

Manufacturer GE
Type SGHA, Spectra RMS
Frame/Model SGHA
Sensor/Trip 400.0 A
Settings Phase
  MAX

BKR_CLDP2 - CATHLAB#2

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_CLDP2 - CATHLAB#1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_CLDP2 - CATHLAB#3

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

TIME IN SECONDS

BKR_CATHLAB - CLDP2
CBL-0346_1
BKR_CLDP2 - MAIN
PNL_CLDP2
BKR_CLDP2 - CATHLAB#3
BKR_CLDP2 - CATHLAB#1
BKR_CLDP2 - CATHLAB#2

CURRENT IN AMPERES

TCC Name: TCC_023_PNL_CLDP2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CLDP2 - CL-UPS

Manufacturer GE
Type FB, 2 & 3-Pole 480V
Frame/Model FBV
Sensor/Trip 80.0 A
Settings Phase
    Fixed

BKR_CL-UPS - CATH-RM#1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 50.0 A
Settings Phase
    Fixed

BKR_CL-UPS - CATH-RM#2

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 50.0 A
Settings Phase
    Fixed

TIME IN SECONDS

CURRENT IN AMPERES

Legend:
- BKR_CLDP2 - CL-UPS
- CBL-0348_1
- PNL_CL-UPS
- BKR_CL-UPS - CATH-RM#2
- BKR_CL-UPS - CATH-RM#1

TCC Name: TCC_024_PNL_CL-UPS
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
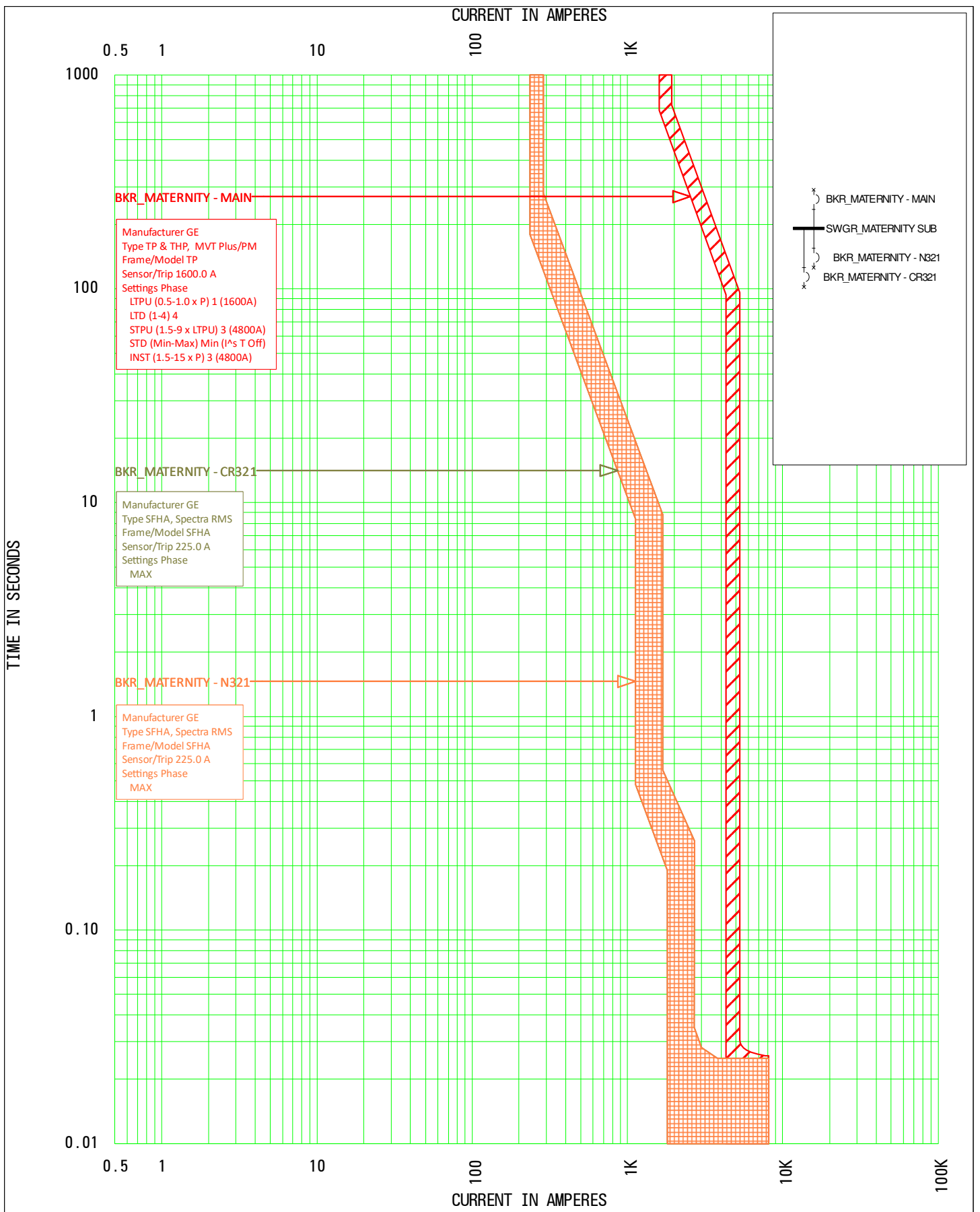Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATHLAB - MATERNITY

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 500.0 A
Settings Phase
    MAX

TX_MATERNITY

300.0 kVA
Z=7.0000 %
Pri FLA 360.8 A

BKR_MATERNITY - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (1600A)
    LTD (1-4) 4
    STPU (1.5-9 x LTPU) 3 (4800A)
    STD (Min-Max) Min (I^s T Off)
    INST (1.5-15 x P) 3 (4800A)

TX Inrush

BKR_CATHLAB - MATERNITY
CBL-0117
TX_MATERNITY
CBL-0387_1
BKR_MATERNITY - MAIN

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_025_TX_MATERNITY
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED
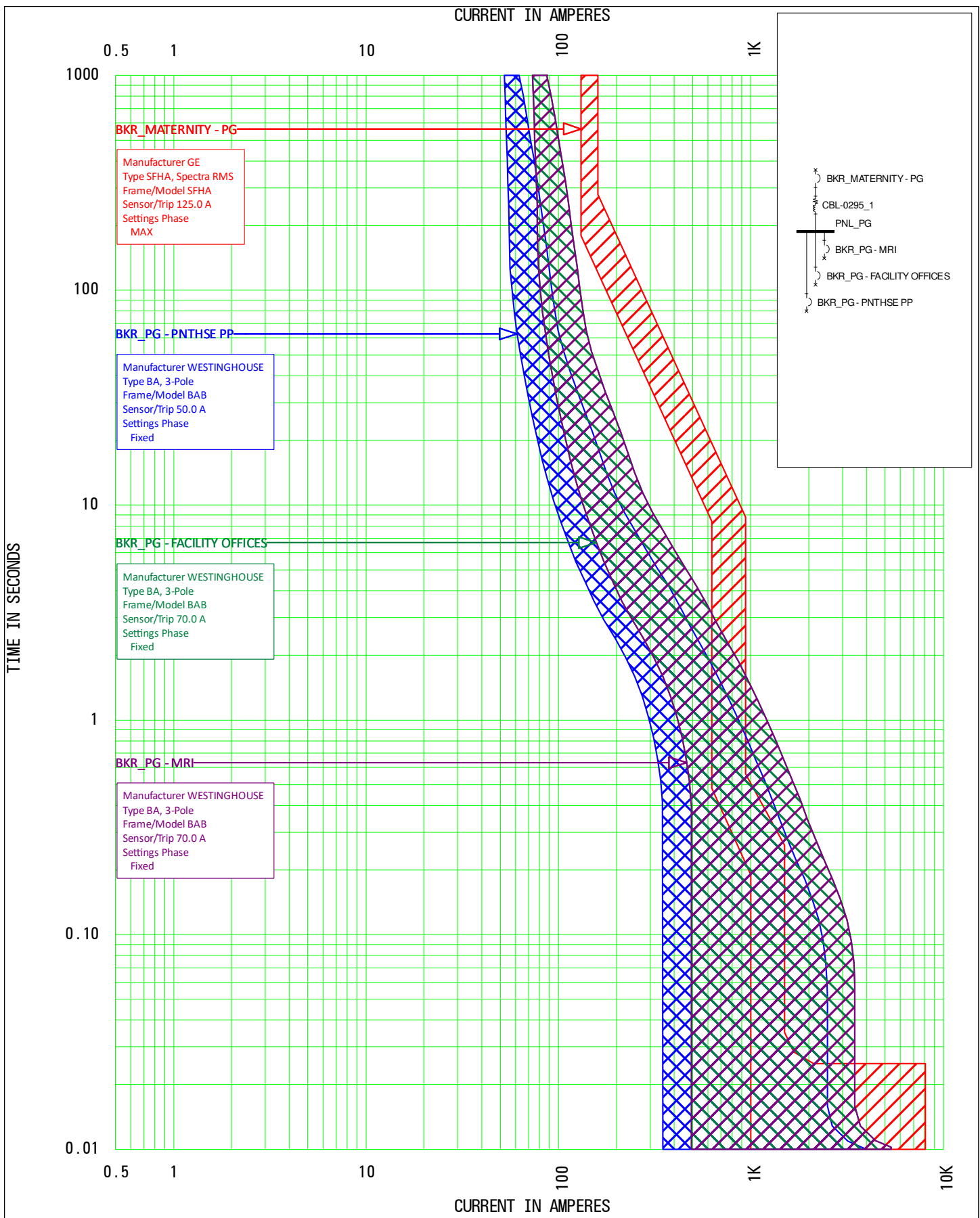
TIME IN SECONDS

BKR_MATERNITY - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
  LTPU (0.5-1.0 x P) 1 (1600A)
  LTD (1-4) 4
  STPU (1.5-9 x LTPU) 3 (4800A)
  STD (Min-Max) Min (I^s T Off)
  INST (1.5-15 x P) 3 (4800A)

BKR_MATERNITY - CR321

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
  MAX

BKR_MATERNITY - N321

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
  MAX

BKR_MATERNITY - MAIN
SWGR_MATERNITY SUB
BKR_MATERNITY - N321
BKR_MATERNITY - CR321

TCC Name: TCC_026_SWGR_MATERNITY SUB
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MATERNITY - PG

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 125.0 A
Settings Phase
  MAX

BKR_PG - PNTHSE PP

Manufacturer WESTINGHOUSE
Type BA, 3-Pole
Frame/Model BAB
Sensor/Trip 50.0 A
Settings Phase
  Fixed

BKR_PG - FACILITY OFFICES

Manufacturer WESTINGHOUSE
Type BA, 3-Pole
Frame/Model BAB
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_PG - MRI

Manufacturer WESTINGHOUSE
Type BA, 3-Pole
Frame/Model BAB
Sensor/Trip 70.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MATERNITY - PG
CBL-0295_1
PNL_PG
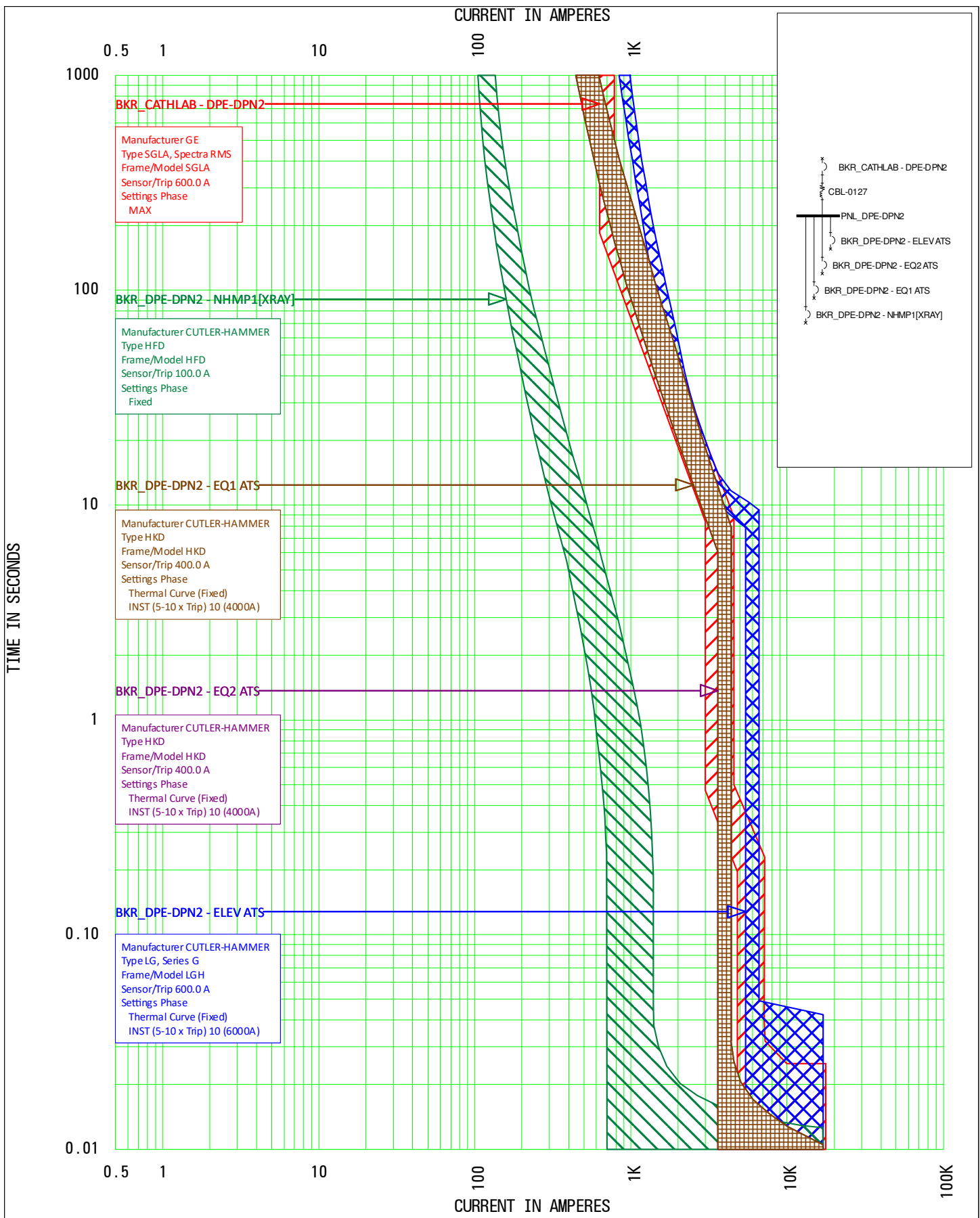BKR_PG - MRI
BKR_PG - FACILITY OFFICES
BKR_PG - PNTHSE PP

TCC Name: TCC_027_PNL_PG
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
Main Campus

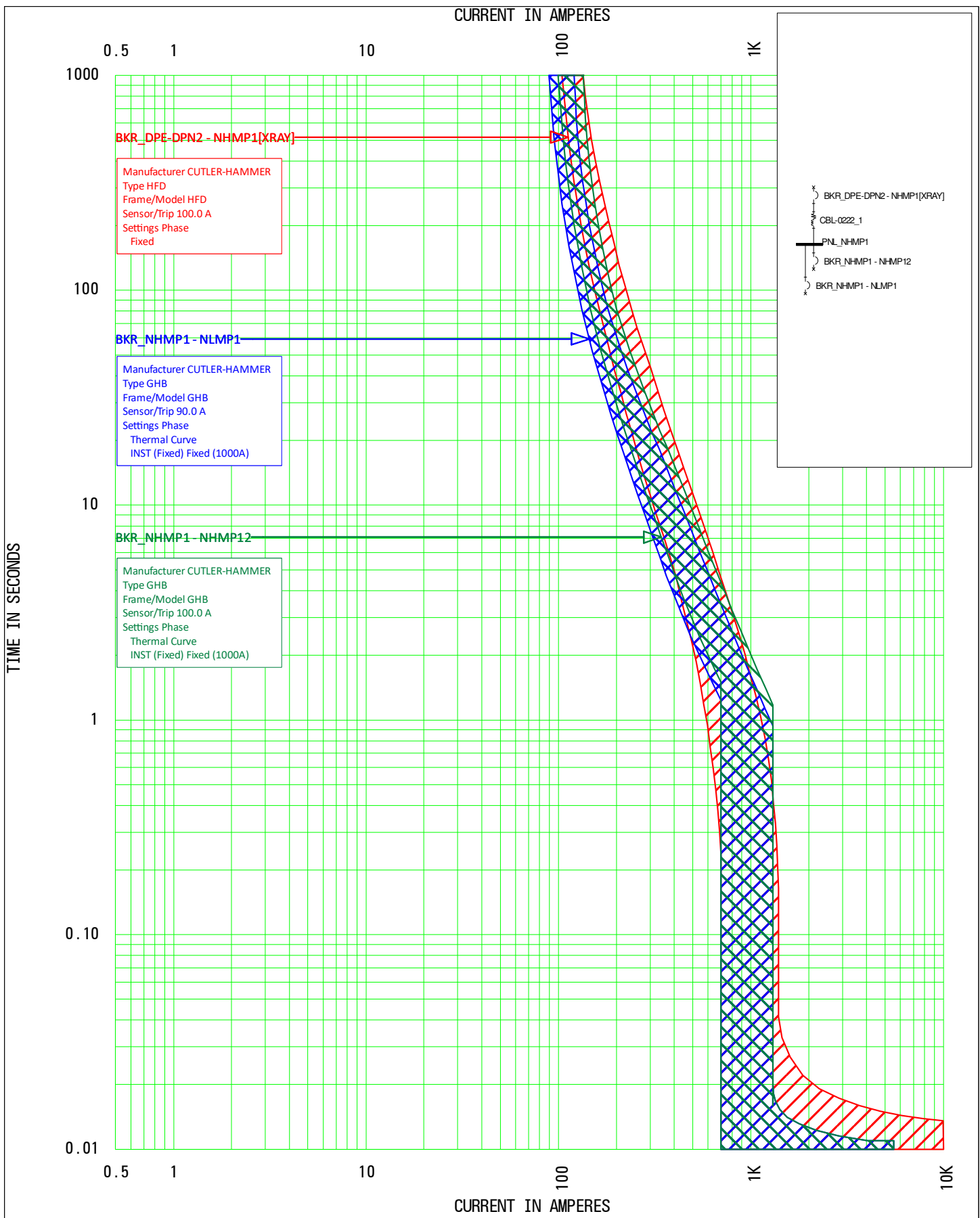**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CATHLAB - DPE-DPN2

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 600.0 A
Settings Phase
    MAX

BKR_DPE-DPN2 – NHMP1[XRAY]

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
    Fixed

BKR_DPE-DPN2 - EQ1 ATS

Manufacturer CUTLER-HAMMER
Type HKD
Frame/Model HKD
Sensor/Trip 400.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST (5-10 x Trip) 10 (4000A)

BKR_DPE-DPN2 - EQ2 ATS

Manufacturer CUTLER-HAMMER
Type HKD
Frame/Model HKD
Sensor/Trip 400.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST (5-10 x Trip) 10 (4000A)

BKR_DPE-DPN2 - ELEV ATS

Manufacturer CUTLER-HAMMER
Type LG, Series G
Frame/Model LGH
Sensor/Trip 600.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST (5-10 x Trip) 10 (6000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CATHLAB - DPE-DPN2
CBL-0127
PNL_DPE-DPN2
BKR_DPE-DPN2 - ELEV ATS
BKR_DPE-DPN2 - EQ2 ATS
BKR_DPE-DPN2 - EQ1 ATS
BKR_DPE-DPN2 - NHMP1[XRAY]

TCC Name: TCC_028_PNL_DPE-DPN2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_DPE-DPN2 - NHMP1[XRAY]

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
    Fixed

BKR_NHMP1 - NLMP1

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve
    INST (Fixed) Fixed (1000A)

BKR_NHMP1 - NHMP12

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 100.0 A
Settings Phase
    Thermal Curve
    INST (Fixed) Fixed (1000A)

BKR_DPE-DPN2 - NHMP1[XRAY]

CBL-0222_1

PNL_NHMP1

BKR_NHMP1 - NHMP12

BKR_NHMP1 - NLMP1

CURRENT IN AMPERES

TCC Name: TCC_029_PNL_NHMP1
Project #810133
Base Project   Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
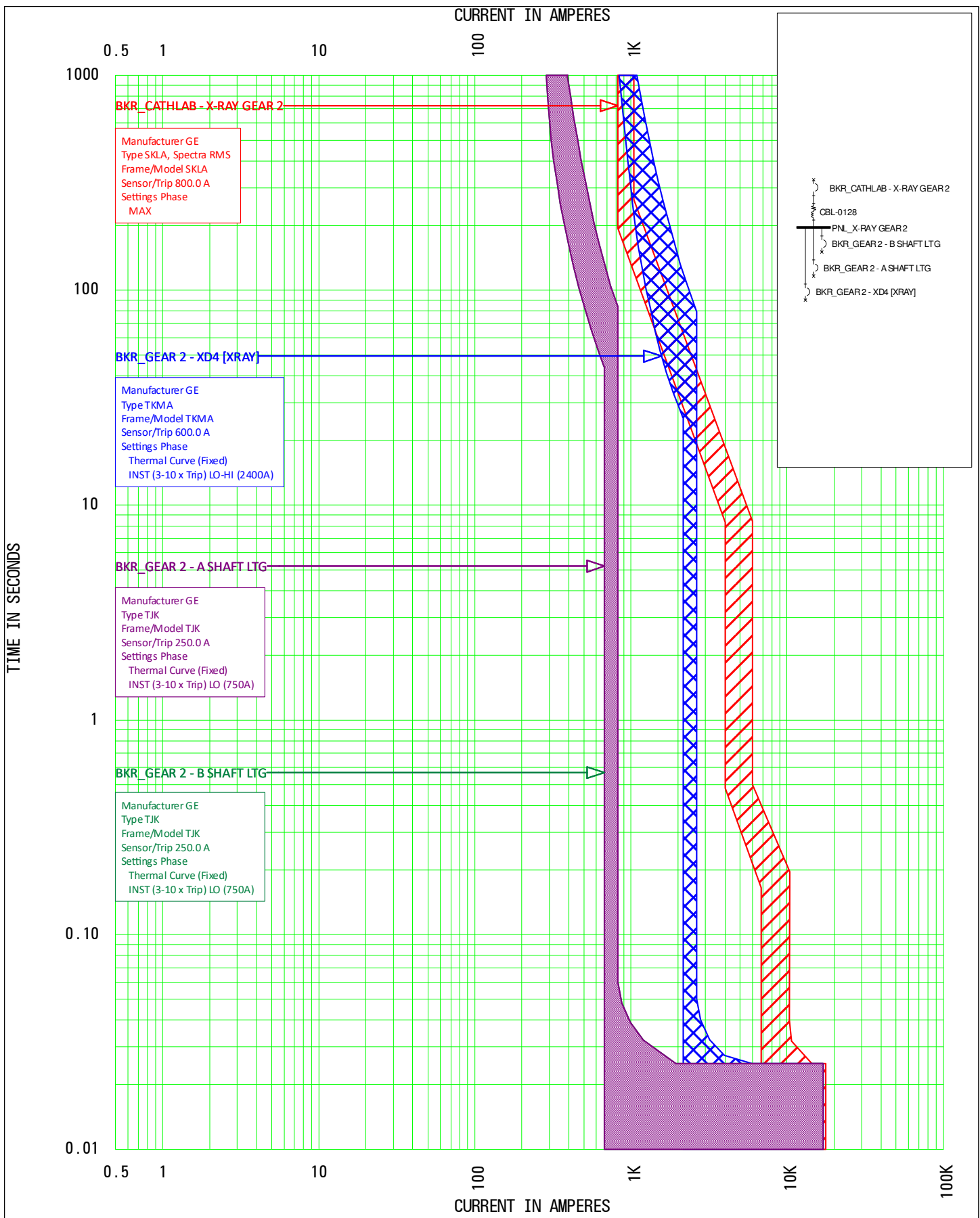Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_CATHLAB - X-RAY GEAR 2

Manufacturer GE
Type SKLA, Spectra RMS
Frame/Model SKLA
Sensor/Trip 800.0 A
Settings Phase
   MAX

BKR_GEAR 2 - XD4 [XRAY]

Manufacturer GE
Type TKMA
Frame/Model TKMA
Sensor/Trip 600.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) LO-HI (2400A)

BKR_GEAR 2 - A SHAFT LTG

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) LO (750A)

BKR_GEAR 2 - B SHAFT LTG

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) LO (750A)

BKR_CATHLAB - X-RAY GEAR 2
CBL-0128
PNL_X-RAY GEAR 2
BKR_GEAR 2 - B SHAFT LTG
BKR_GEAR 2 - A SHAFT LTG
BKR_GEAR 2 - XD4 [XRAY]

CURRENT IN AMPERES
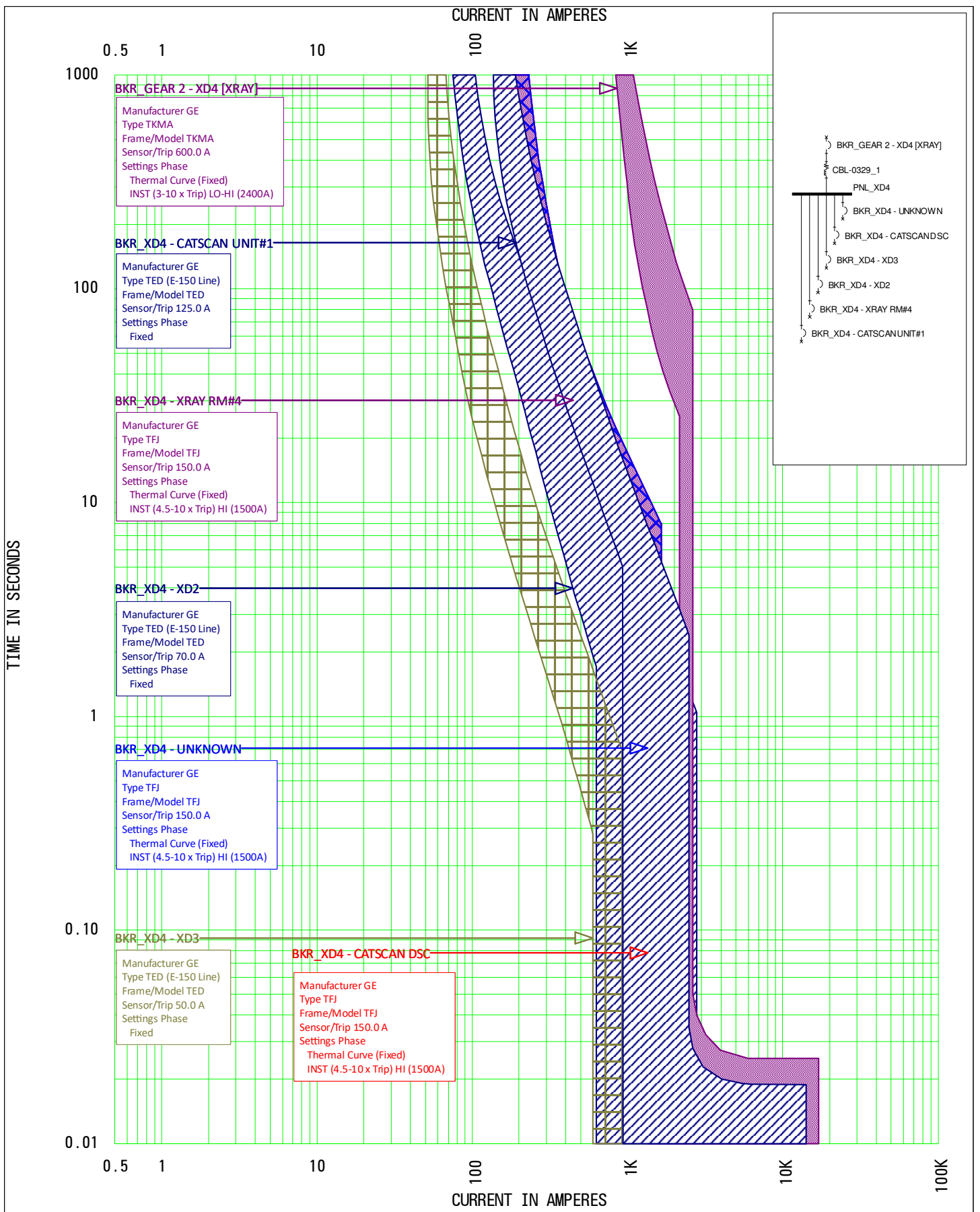
TCC Name: TCC_030_PNL_X-RAY GEAR 2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 2 - XD4 [XRAY]

Manufacturer GE
Type TKMA
Frame/Model TKMA
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) LO-HI (2400A)

BKR_XD4 - CATSCAN UNIT#1

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_XD4 - XRAY RM#4

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 150.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1500A)

BKR_XD4 - XD2

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_XD4 - UNKNOWN

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 150.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1500A)

BKR_XD4 - XD3

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 50.0 A
Settings Phase
  Fixed

BKR_XD4 - CATSCAN DSC

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 150.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1500A)

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram:
- BKR_GEAR 2 - XD4 [XRAY]
- CBL-0329_1
- PNL_XD4
- BKR_XD4 - UNKNOWN
- BKR_XD4 - CATSCAN DSC
- BKR_XD4 - XD3
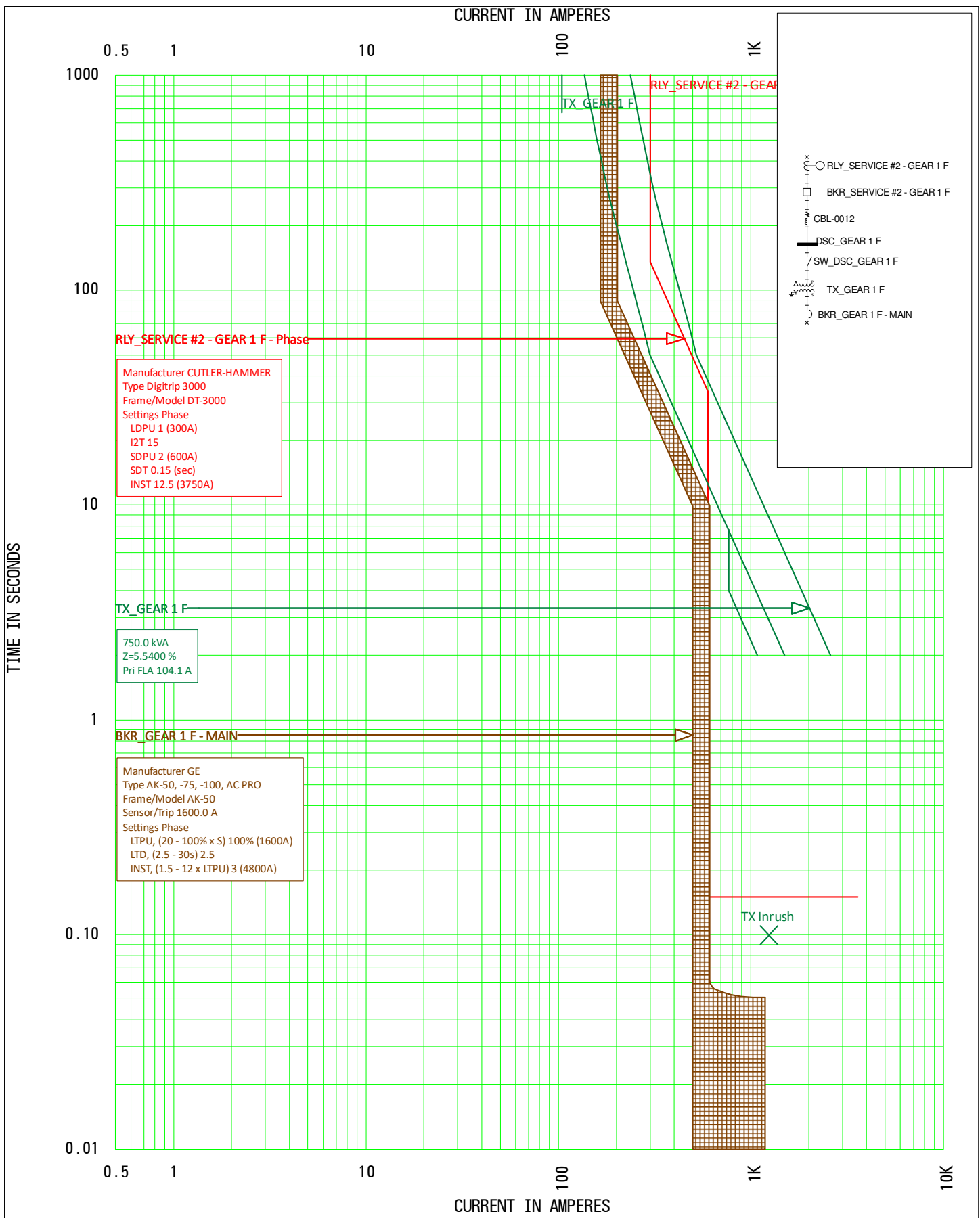- BKR_XD4 - XD2
- BKR_XD4 - XRAY RM#4
- BKR_XD4 - CATSCAN UNIT#1

TCC Name: TCC_031_PNL_XD4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #2 - GEAR 1 F - Phase

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
 LDPU 1 (300A)
 I2T 15
 SDPU 2 (600A)
 SDT 0.15 (sec)
 INST 12.5 (3750A)

TX_GEAR 1 F

750.0 kVA
Z=5.5400 %
Pri FLA 104.1 A

BKR_GEAR 1 F - MAIN

Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
 LTPU, (20 - 100% x S) 100% (1600A)
 LTD, (2.5 - 30s) 2.5
 INST, (1.5 - 12 x LTPU) 3 (4800A)

TX Inrush

TX_GEAR 1 F

RLY_SERVICE #2 - GEAR

○ RLY_SERVICE #2 - GEAR 1 F
□ BKR_SERVICE #2 - GEAR 1 F
CBL-0012
DSC_GEAR 1 F
SW_DSC_GEAR 1 F
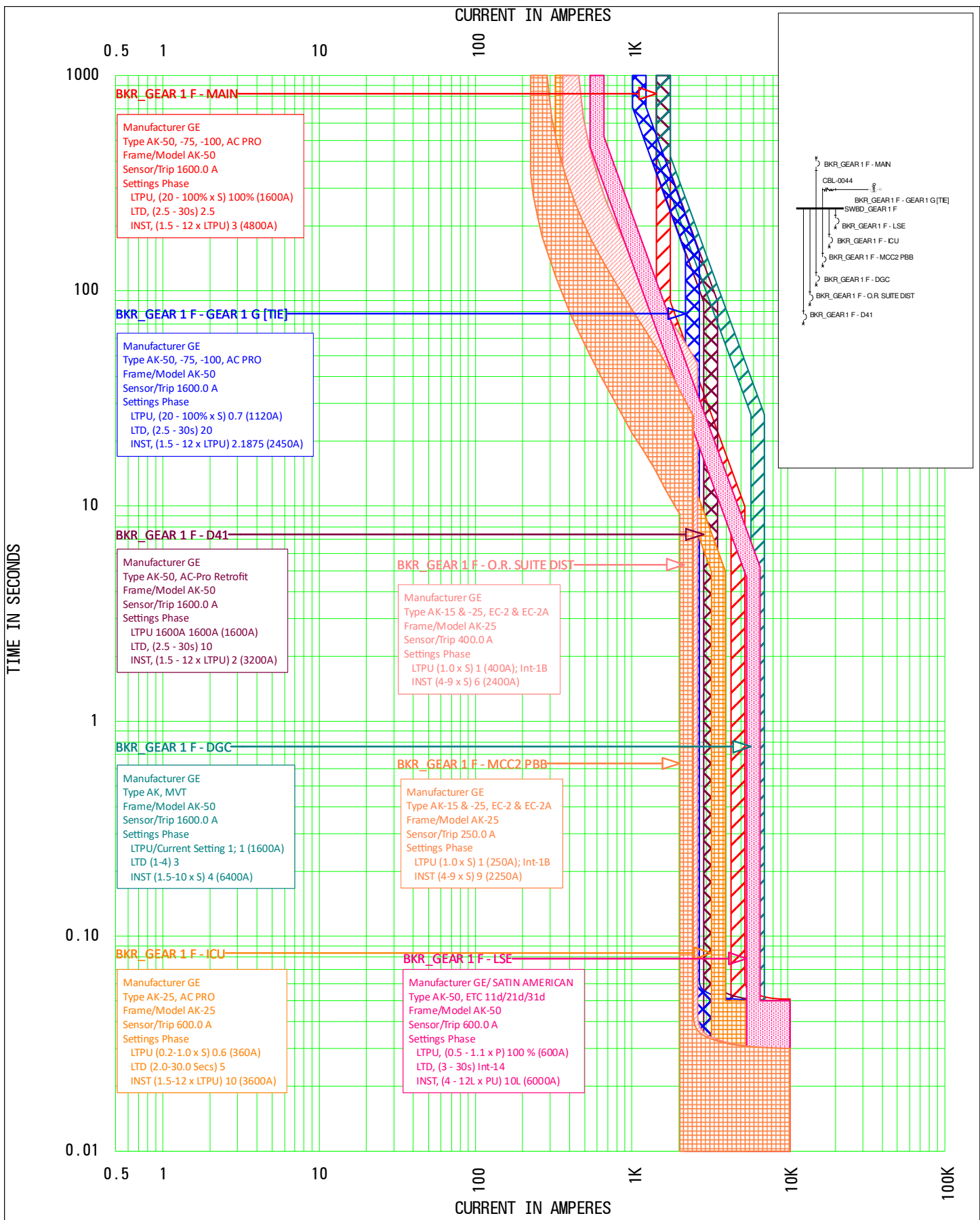TX_GEAR 1 F
BKR_GEAR 1 F - MAIN

CURRENT IN AMPERES

TCC Name: TCC_032_TX_GEAR 1 F
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - MAIN

Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
 LTPU, (20 - 100% x S) 100% (1600A)
 LTD, (2.5 - 30s) 2.5
 INST, (1.5 - 12 x LTPU) 3 (4800A)

BKR_GEAR 1 F - GEAR 1 G [TIE]

Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
 LTPU, (20 - 100% x S) 0.7 (1120A)
 LTD, (2.5 - 30s) 20
 INST, (1.5 - 12 x LTPU) 2.1875 (2450A)

BKR_GEAR 1 F - D41

Manufacturer GE
Type AK-50, AC-Pro Retrofit
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
 LTPU 1600A 1600A (1600A)
 LTD, (2.5 - 30s) 10
 INST, (1.5 - 12 x LTPU) 2 (3200A)

BKR_GEAR 1 F - O.R. SUITE DIST

Manufacturer GE
Type AK-15 & -25, EC-2 & EC-2A
Frame/Model AK-25
Sensor/Trip 400.0 A
Settings Phase
 LTPU (1.0 x S) 1 (400A); Int-1B
 INST (4-9 x S) 6 (2400A)

BKR_GEAR 1 F - DGC

Manufacturer GE
Type AK, MVT
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
 LTPU/Current Setting 1; 1 (1600A)
 LTD (1-4) 3
 INST (1.5-10 x S) 4 (6400A)

BKR_GEAR 1 F - MCC2 PBB

Manufacturer GE
Type AK-15 & -25, EC-2 & EC-2A
Frame/Model AK-25
Sensor/Trip 250.0 A
Settings Phase
 LTPU (1.0 x S) 1 (250A); Int-1B
 INST (4-9 x S) 9 (2250A)

BKR_GEAR 1 F - ICU

Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
 LTPU (0.2-1.0 x S) 0.6 (360A)
 LTD (2.0-30.0 Secs) 5
 INST (1.5-12 x LTPU) 10 (3600A)

BKR_GEAR 1 F - LSE

Manufacturer GE/ SATIN AMERICAN
Type AK-50, ETC 11d/21d/31d
Frame/Model AK-50
Sensor/Trip 600.0 A
Settings Phase
 LTPU, (0.5 - 1.1 x P) 100 % (600A)
 LTD, (3 - 30s) Int-14
 INST, (4 - 12L x PU) 10L (6000A)

TIME IN SECONDS

CURRENT IN AMPERES

Single-line diagram labels:
BKR_GEAR 1 F - MAIN
CBL-0044
BKR_GEAR 1 F - GEAR 1 G [TIE]
SWBD_GEAR 1 F
BKR_GEAR 1 F - LSE
BKR_GEAR 1 F - ICU
BKR_GEAR 1 F - MCC2 PBB
BKR_GEAR 1 F - DGC
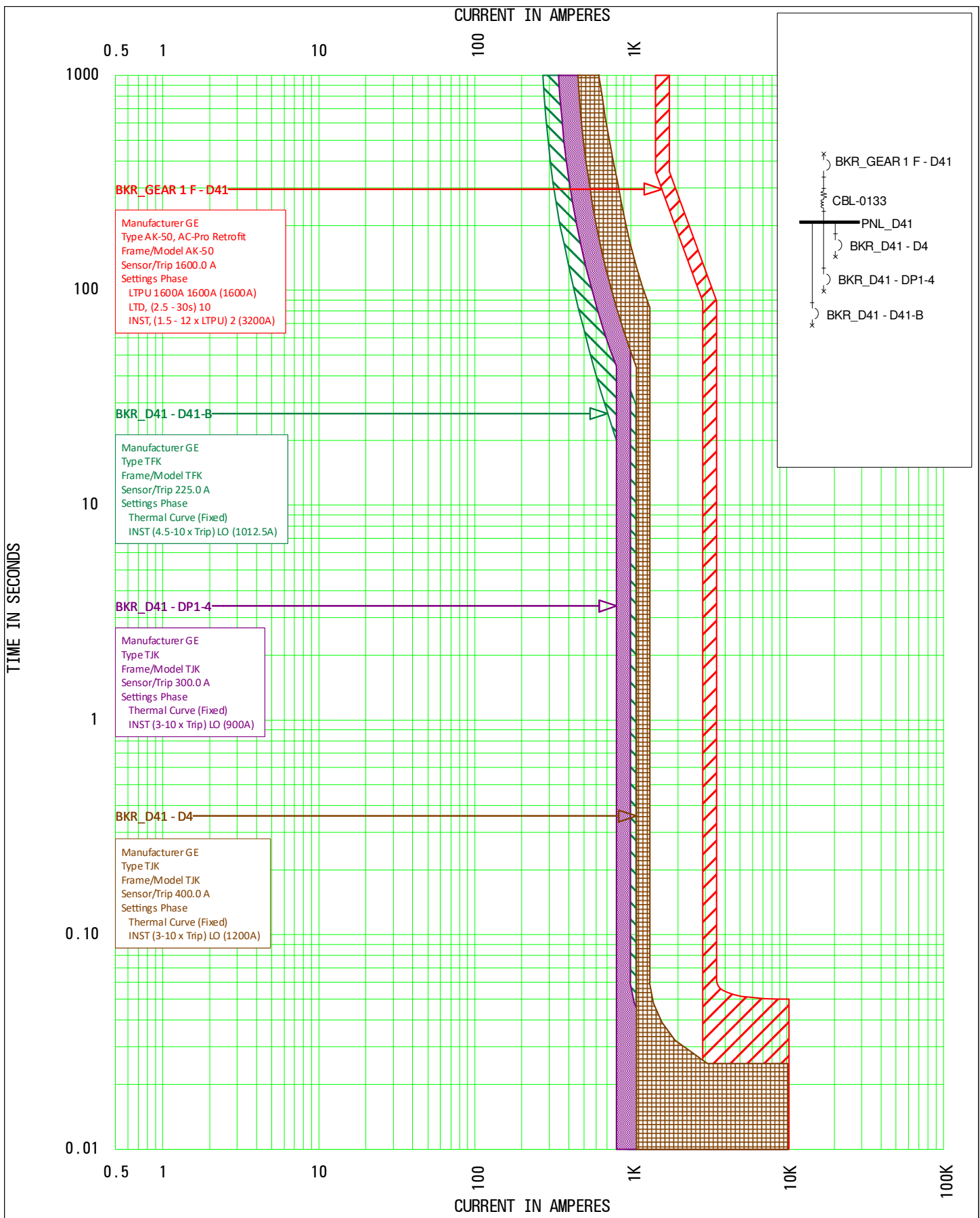BKR_GEAR 1 F - O.R. SUITE DIST
BKR_GEAR 1 F - D41

TCC Name: TCC_033_SWBD_GEAR 1 F
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - D41

Manufacturer GE
Type AK-50, AC-Pro Retrofit
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU 1600A 1600A (1600A)
  LTD, (2.5 - 30s) 10
  INST, (1.5 - 12 x LTPU) 2 (3200A)

BKR_D41 - D41-B

Manufacturer GE
Type TFK
Frame/Model TFK
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) LO (1012.5A)

BKR_D41 - DP1-4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 300.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) LO (900A)

BKR_D41 - D4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) LO (1200A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 F - D41
CBL-0133
PNL_D41
BKR_D41 - D4
BKR_D41 - DP1-4
BKR_D41 - D41-B

TCC Name: TCC_034_PNL_D41
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
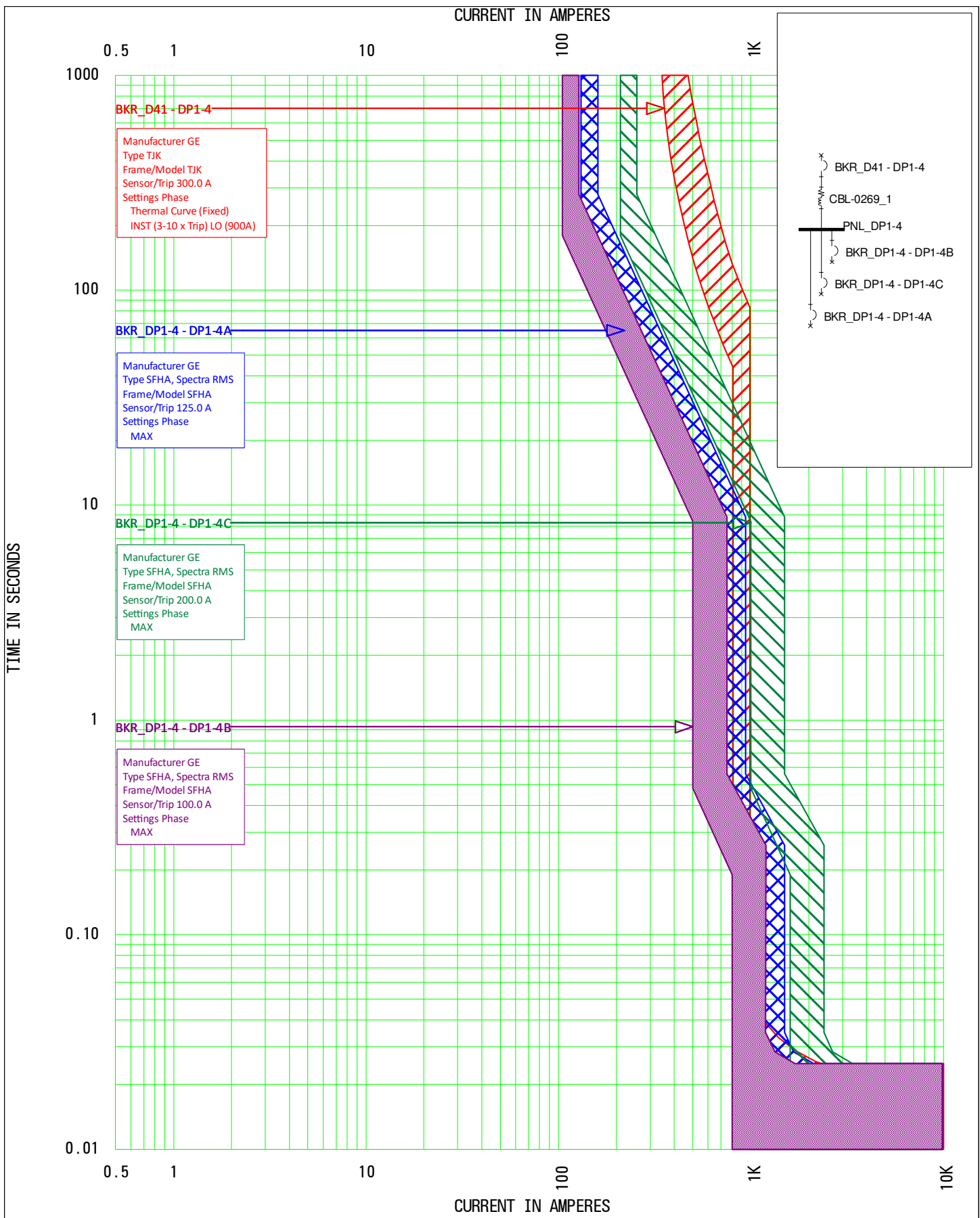Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D41 - DP1-4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 300.0 A
Settings Phase
　Thermal Curve (Fixed)
　INST (3-10 x Trip) LO (900A)

BKR_DP1-4 - DP1-4A

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 125.0 A
Settings Phase
　MAX

BKR_DP1-4 - DP1-4C

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 200.0 A
Settings Phase
　MAX

BKR_DP1-4 - DP1-4B

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 100.0 A
Settings Phase
　MAX

TIME IN SECONDS

CURRENT IN AMPERES

BKR_D41 - DP1-4
CBL-0269_1
PNL_DP1-4
BKR_DP1-4 - DP1-4B
BKR_DP1-4 - DP1-4C
BKR_DP1-4 - DP1-4A

TCC Name: TCC_035_PNL_DP1-4
Project #810133
Base Project

Current Scale　x 1

Reference Voltage: 480V
Lowell General Hospital
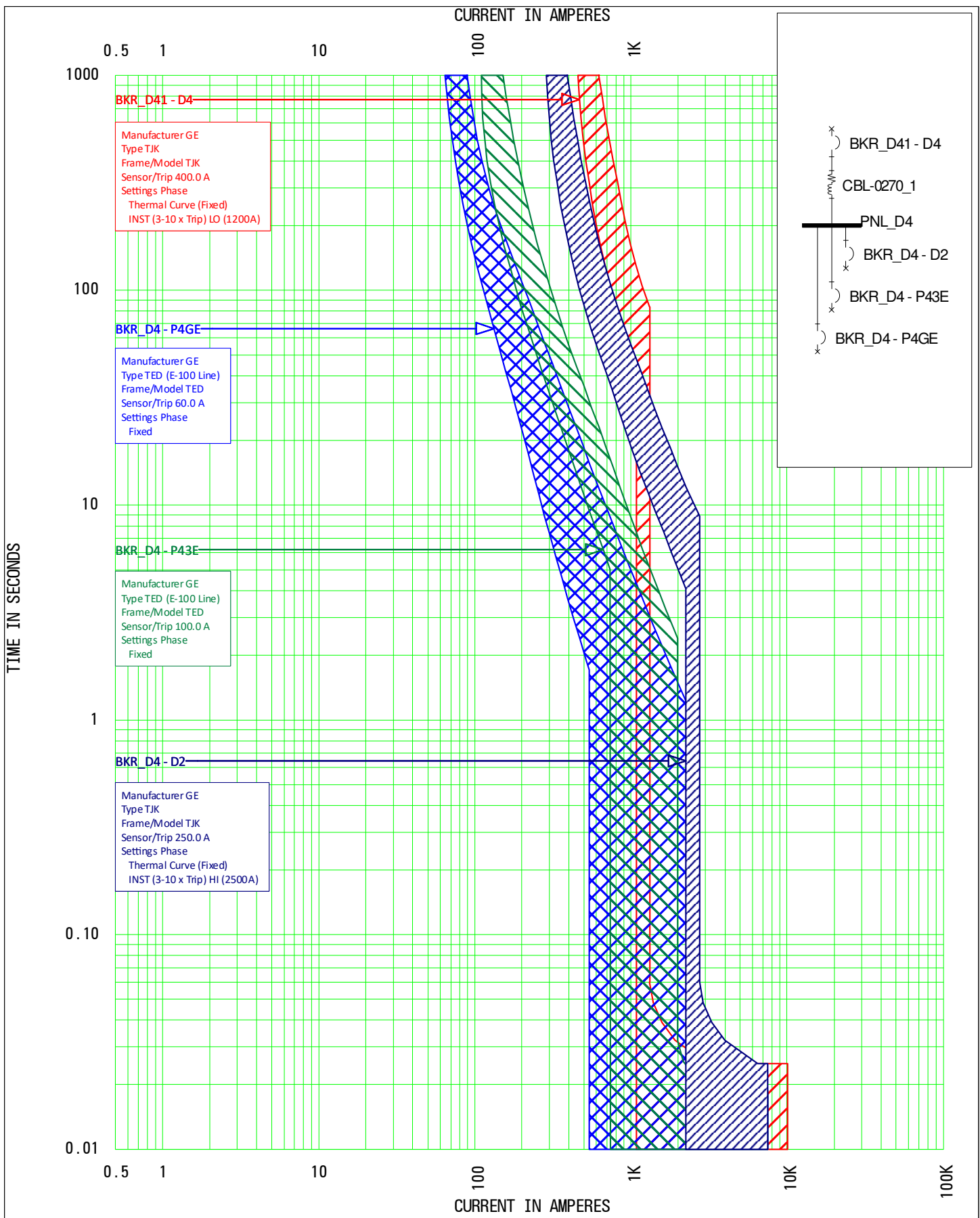Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D41 - D4

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 400.0 A
Settings Phase
 Thermal Curve (Fixed)
 INST (3-10 x Trip) LO (1200A)

BKR_D4 - P4GE

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 60.0 A
Settings Phase
 Fixed

BKR_D4 - P43E

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 100.0 A
Settings Phase
 Fixed

BKR_D4 - D2

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
 Thermal Curve (Fixed)
 INST (3-10 x Trip) HI (2500A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_D41 - D4
CBL-0270_1
PNL_D4
BKR_D4 - D2
BKR_D4 - P43E
BKR_D4 - P4GE

TCC Name: TCC_036_PNL_D4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
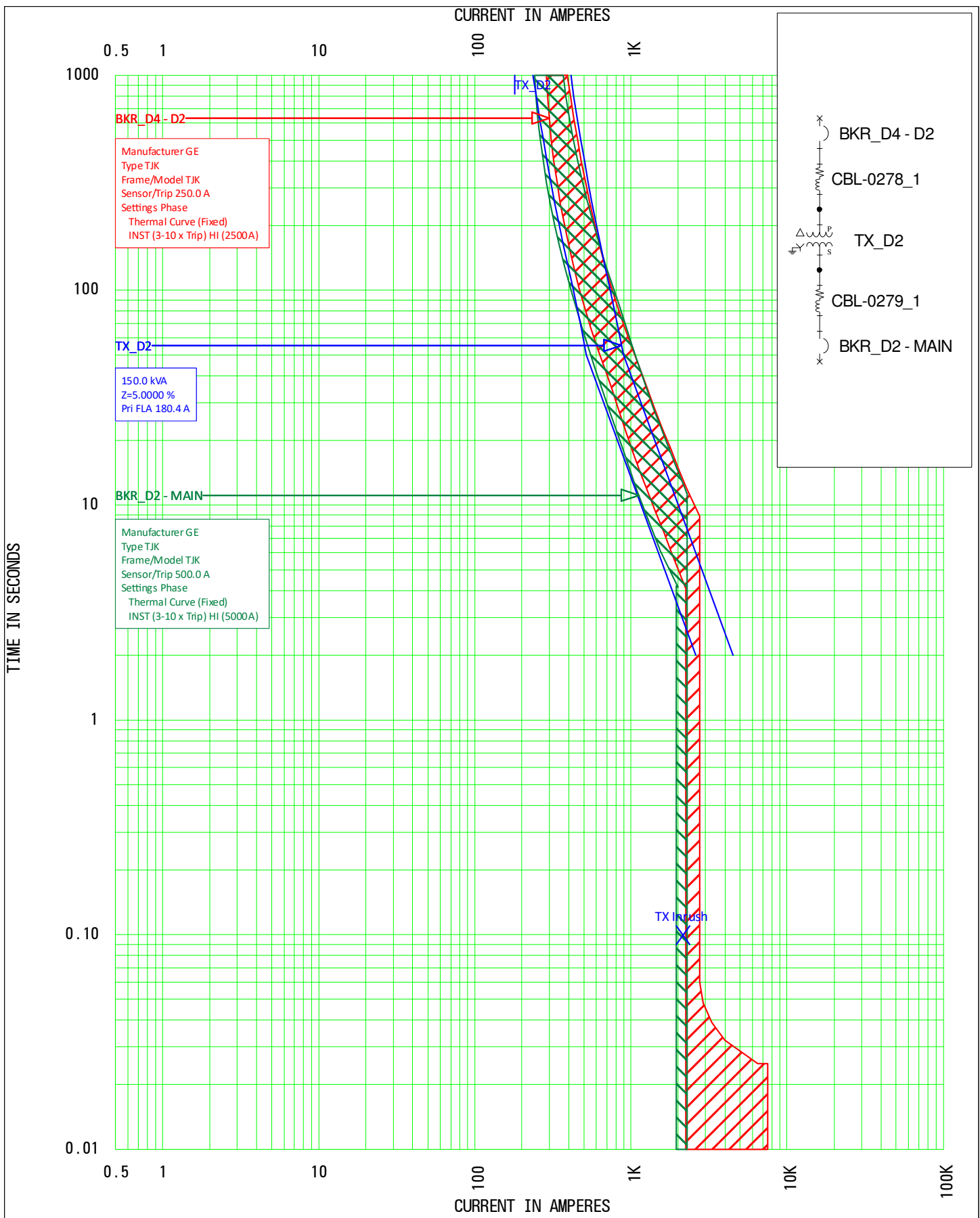Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D4 - D2

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (2500A)

TX_D2

150.0 kVA
Z=5.0000 %
Pri FLA 180.4 A

BKR_D2 - MAIN

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 500.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (5000A)

TX Inrush

TIME IN SECONDS

CURRENT IN AMPERES

BKR_D4 - D2

CBL-0278_1

TX_D2

CBL-0279_1

BKR_D2 - MAIN

TCC Name: TCC_037_TX_D2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_D2 - MAIN

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 500.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (3-10 x Trip) HI (5000A)

BKR_D2 - P2A

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 150.0 A
Settings Phase
   Fixed

BKR_D2 - L2A

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 175.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (4.5-10 x Trip) HI (1750A)

TIME IN SECONDS

BKR_D2 - MAIN
PNL_D2
BKR_D2 - L2A
BKR_D2 - P2A

CURRENT IN AMPERES

TCC Name: TCC_038_PNL_D2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
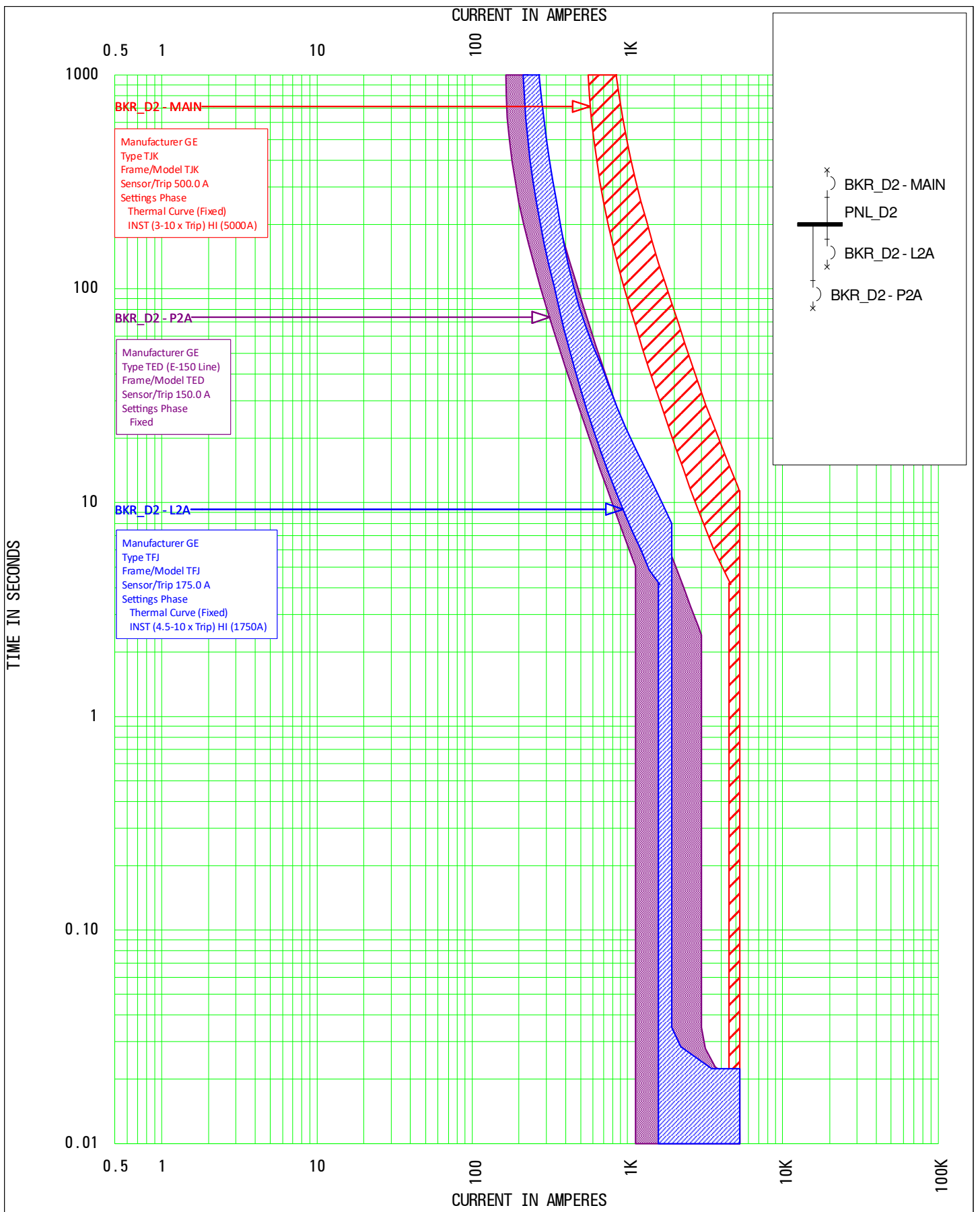Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - DH4

Manufacturer GE
Type AK-15 & -25, Digitrip RMS/R 500/600/700/800
Frame/Model AK-25
Sensor/Trip 300.0 A
Settings Phase
  LTPU 1 (300A)
  LTD 4
  STPU 6 (1800A)
  STD/I2t 0.2 (I^s T On)
  INST 8(M1) (2400A)

BKR_DH4 - SPRINT

Manufacturer GE
Type TEF
Frame/Model TEF
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DH4 - DH2

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 F - DH4
CBL-0135
PNL_DH4
BKR_DH4 - DH2
BKR_DH4 - SPRINT

TCC Name: TCC_039_PNL_DH4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

Chart axis labels:
- Top: CURRENT IN AMPERES — 0.5, 1, 10, 100, 1K
- Bottom: CURRENT IN AMPERES — 0.5, 1, 10, 100, 1K, 10K, 100K
- Left: TIME IN SECONDS — 1000, 100, 10, 1, 0.10, 0.01

BKR_DH4 - DH2
Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2000A)

TX_DH2
150.0 kVA
Z=5.0000 %
Pri FLA 180.4 A

TX_DH2

TX Inrush

One-line diagram labels:
- BKR_DH4 - DH2
- CBL-0245_1
- TX_DH2
- CBL-0247_1
- PNL_DH2

TCC Name: TCC_040_TX_DH2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
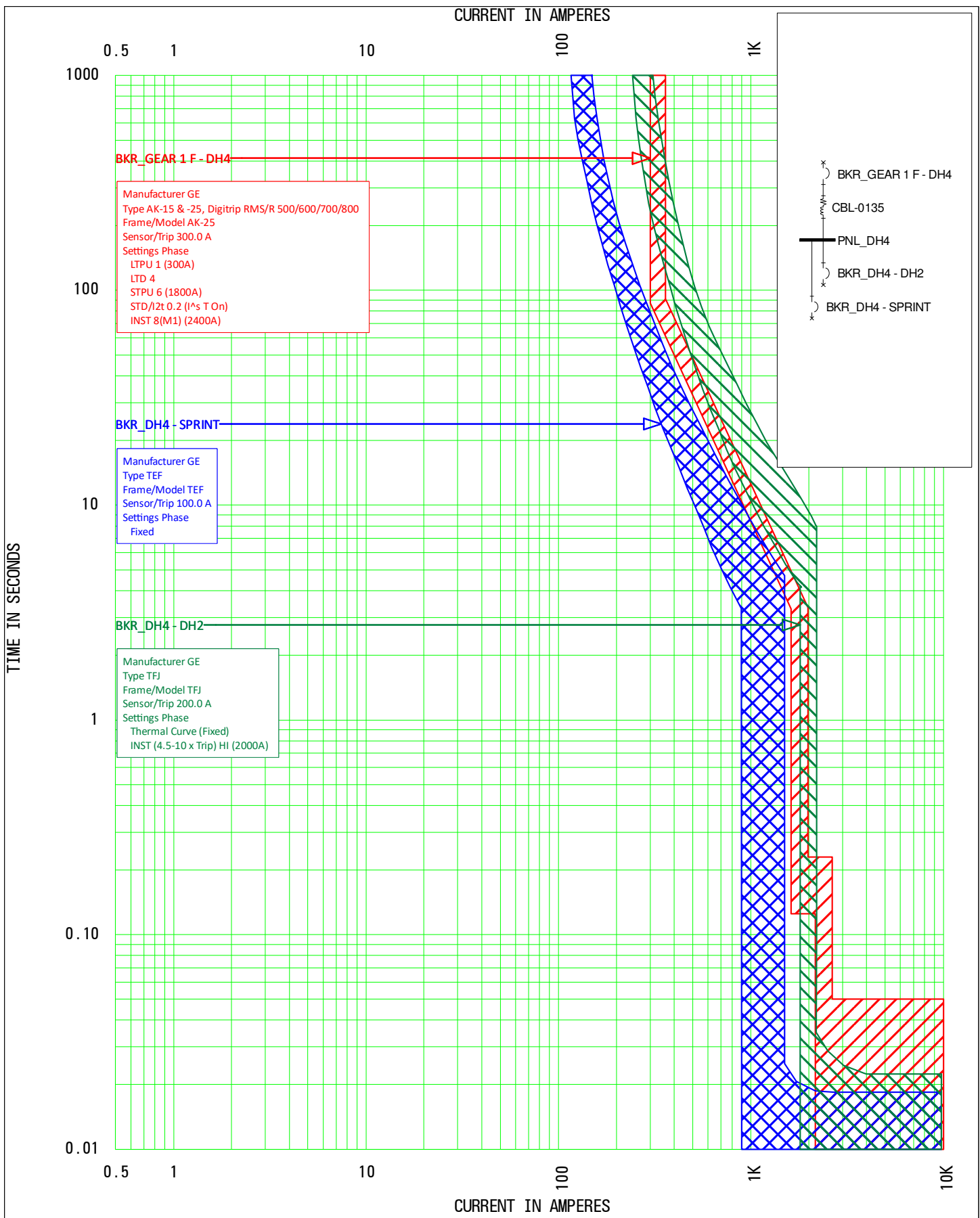Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES (top scale)
0.5   1   10   100   1K

BKR_GEAR 1 F - ICU

Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 0.6 (360A)
  LTD (2.0-30.0 Secs) 5
  INST (1.5-12 x LTPU) 10 (3600A)

BKR_ICU[EMERG] - TSC

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

BKR_ICU[EMERG] - TSS

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 30.0 A
Settings Phase
  Fixed

BKR_ICU[EMERG] - TSE

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

Single line diagram (legend)
- BKR_GEAR 1 F - ICU
- CBL-0141
- PNL_ICU [EMERG]
- BKR_ICU[EMERG] - TSE
- BKR_ICU[EMERG] - TSS
- BKR_ICU[EMERG] - TSC

TIME IN SECONDS (vertical axis): 1000, 100, 10, 1, 0.10, 0.01

CURRENT IN AMPERES (bottom scale)
0.5   1   10   100   1K   10K   100K

TCC Name: TCC_041_PNL_ICU [EMERG]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
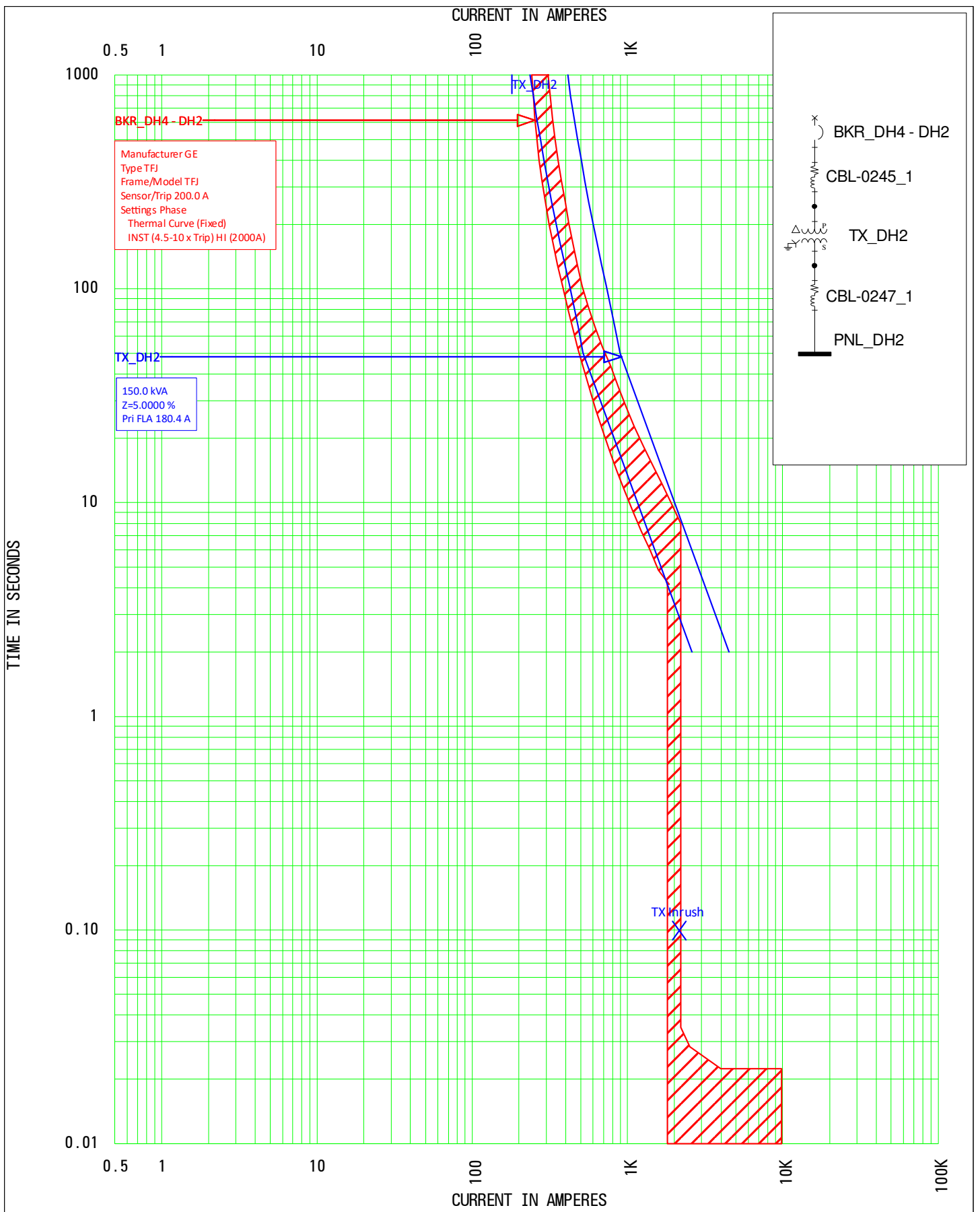Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 F - DGC

Manufacturer GE
Type AK, MVT
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
  LTPU/Current Setting 1; 1 (1600A)
  LTD (1-4) 3
  INST (1.5-10 x S) 4 (6400A)

BKR_DGC - PRKNG_GARAGE

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DGC - PNL-L24AC

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 F - DGC
CBL-0142
PNL_DGC
BKR_DGC - PNL-L24AC
BKR_DGC - PRKNG_GARAGE

TCC Name: TCC_042_PNL_DGC
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
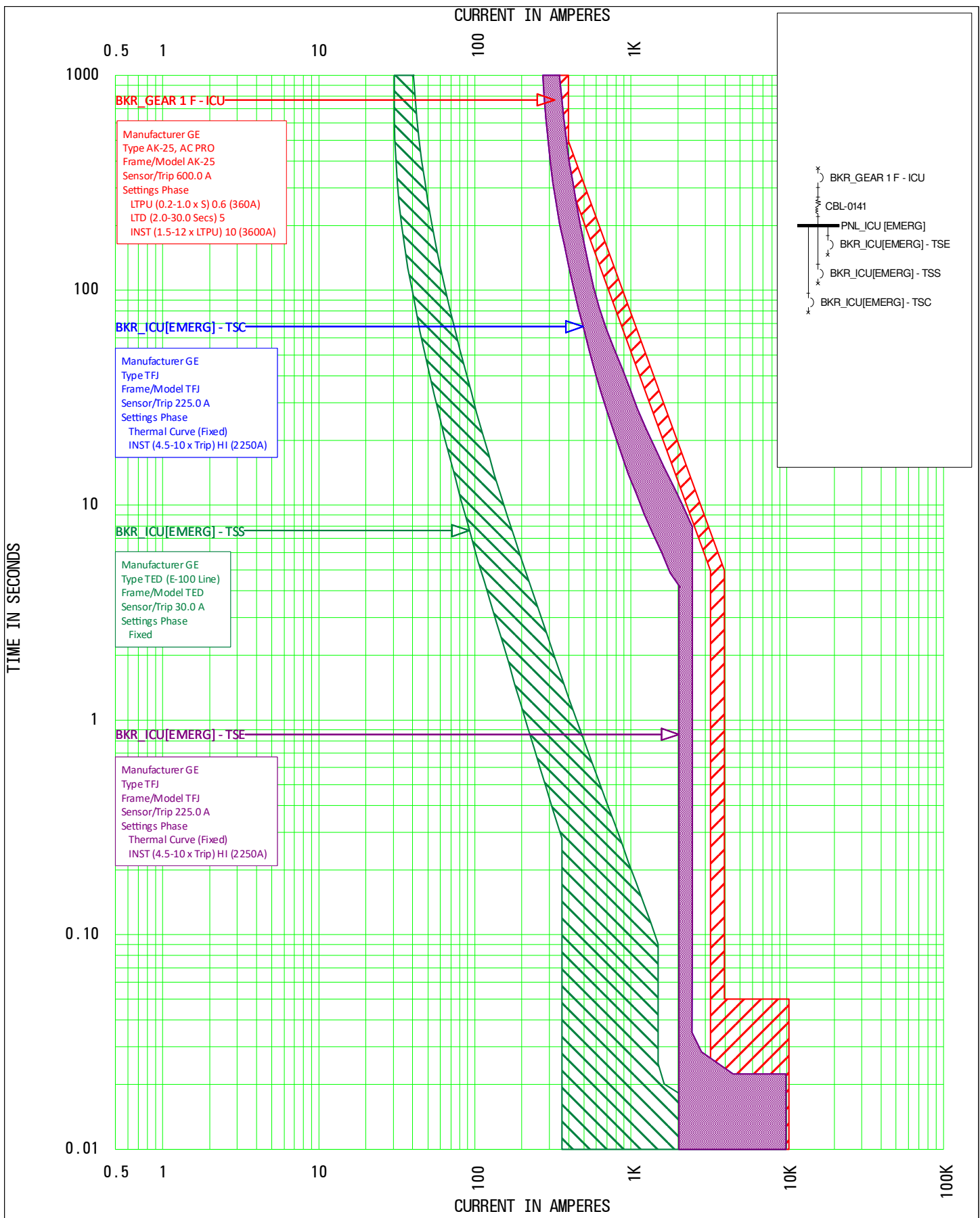Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DGC - PRKNG_GARAGE

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 100.0 A
Settings Phase
  Fixed

TX_LA

150.0 kVA
Z=5.6000 %
Pri FLA 180.4 A

BKR_LA - MAIN

Manufacturer SQUARE D
Type KA
Frame/Model KA
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve
  INST HI (2000A)

TX Inrush

BKR_DGC - PRKNG_GARAGE

CBL-0256_1

TX_LA

CBL-0265_1

BKR_LA - MAIN

CURRENT IN AMPERES

TIME IN SECONDS

TCC Name: TCC_043_TX_LA
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES

RLY_SERVICE #2 - GEAR 1 G - Phase

RLY_SERVICE #2 - GEAR

TX_GEAR 1 G

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 15
  SDPU 2 (600A)
  SDT 0.15 (sec)
  INST 12.5 (3750A)

TX_GEAR 1 G

750.0 kVA
Z=5.5600 %
Pri FLA 104.1 A

BKR_GEAR 1 G - MAIN

Manufacturer GE
Type AK-50, EC-1
Frame/Model AK-50
Sensor/Trip 800.0 A
Settings Phase
  LTPU (0.8-1.6 x S) 1.4 (1120A); Max-1A
  STPU (2-5 x S) 3.5 (2800A); Max-2A

TX Inrush

TIME IN SECONDS

RLY_SERVICE #2 - GEAR 1 G

BKR_SERVICE #2 - GEAR 1 G

CBL-0013

DSC_GEAR 1 G

SW_DSC_GEAR 1 G

TX_GEAR 1 G

BKR_GEAR 1 G - MAIN

CURRENT IN AMPERES

TCC Name: TCC_045_TX_GEAR 1 G
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
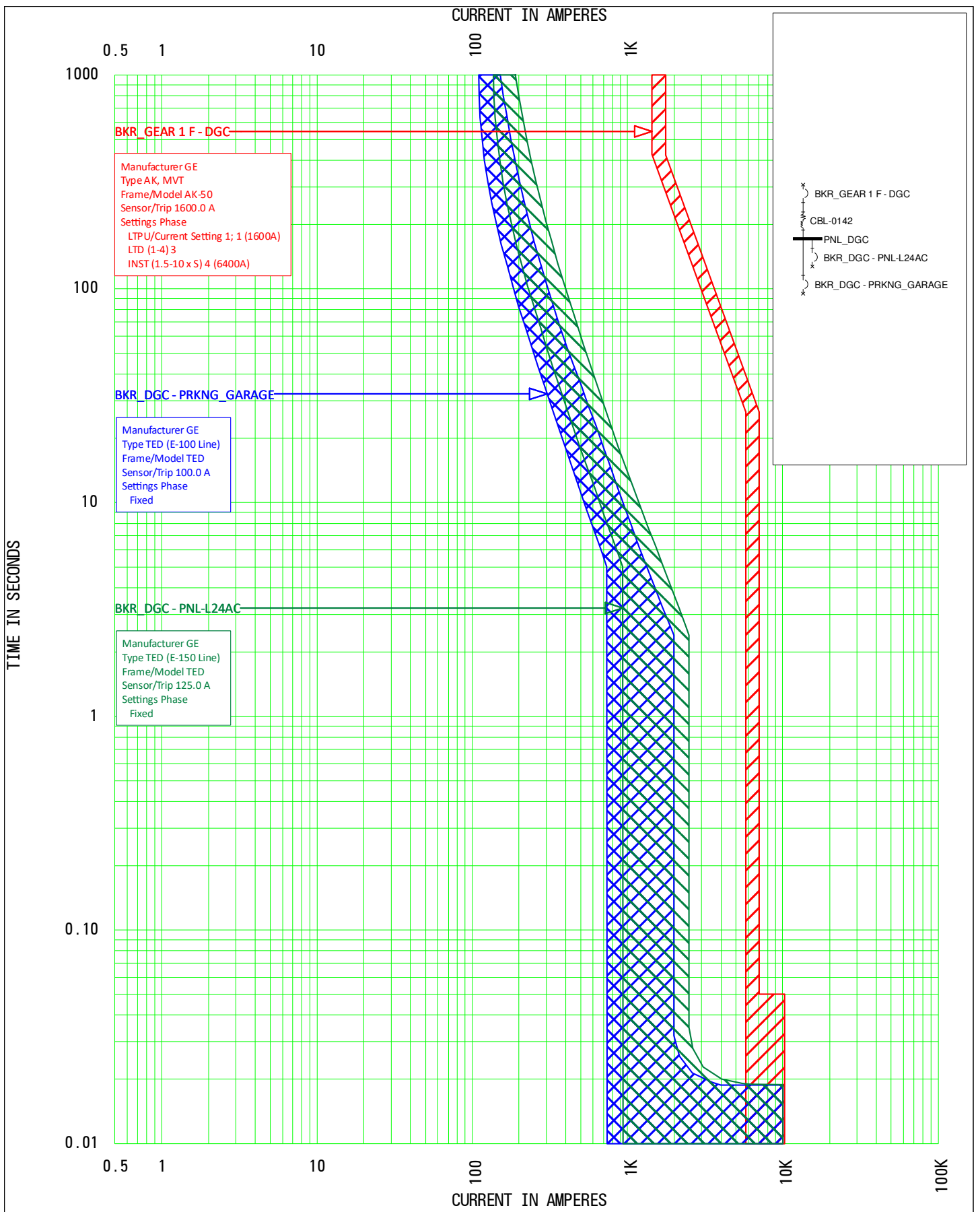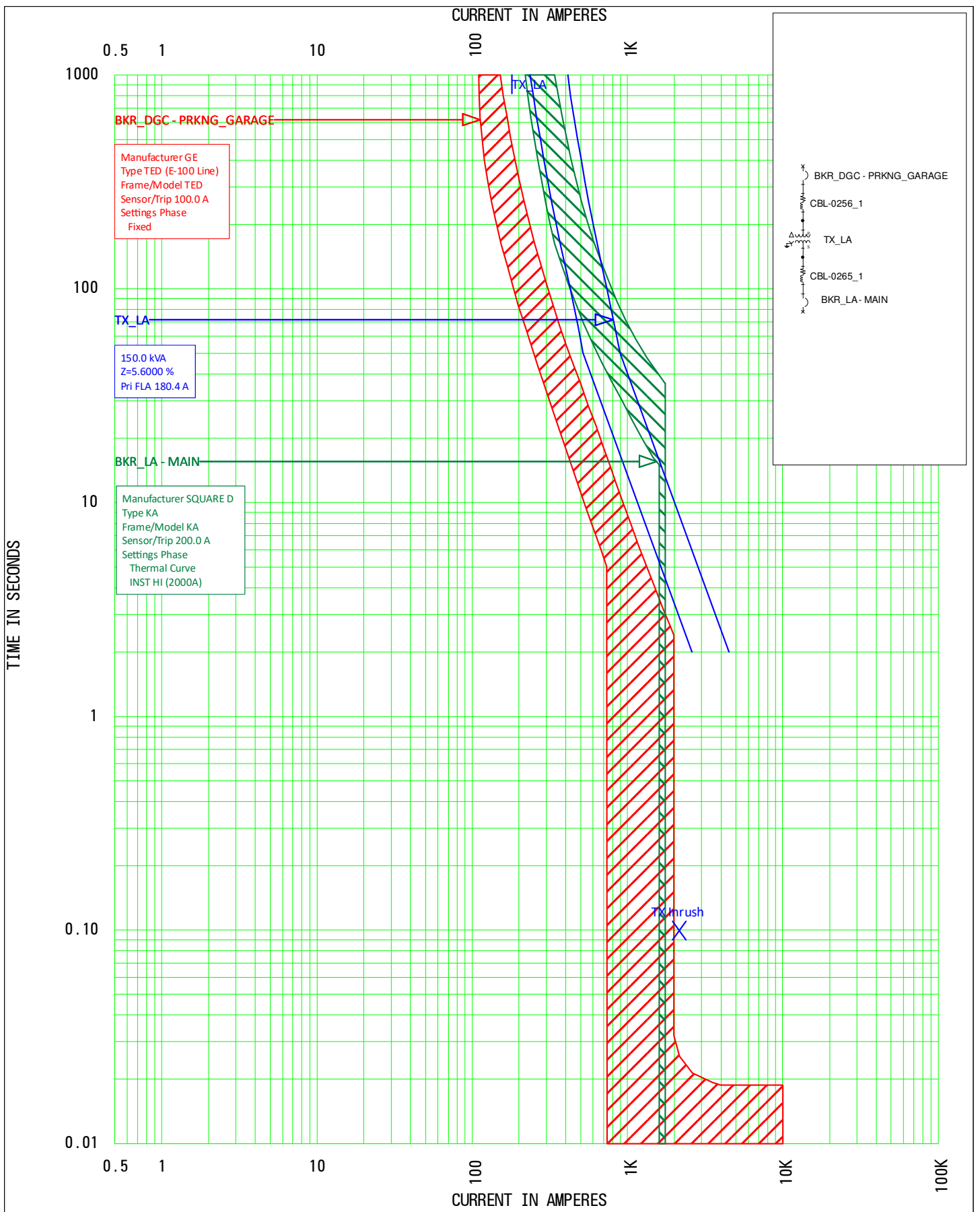Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - MAIN
Manufacturer GE
Type AK-50, EC-1
Frame/Model AK-50
Sensor/Trip 800.0 A
Settings Phase
LTPU (0.8-1.6 x S) 1.4 (1120A); Max-1A
STPU (2-5 x S) 3.5 (2800A); Max-2A

BKR_GEAR 1 F - GEAR 1 G [TIE]
Manufacturer GE
Type AK-50, -75, -100, AC PRO
Frame/Model AK-50
Sensor/Trip 1600.0 A
Settings Phase
LTPU, (20 - 100% x S) 0.7 (1120A)
LTD, (2.5 - 30s) 20
INST, (1.5 - 12 x LTPU) 2.1875 (2450A)

BKR_GEAR 1 G - ICU ATS EQ3
Manufacturer GE
Type AK, MVT Plus
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
LTPU (0.5-1.1 x P) 1.1 (660A)
LTD (1-4) 4
STPU (1.5-9 x LTPU) 9 (5940A)
STD (Min-Max) Max (I^s T Off)

BKR_GEAR 1 G - ICU
Manufacturer GE/ SATIN AMERICAN
Type AK-50, ETC 11d/21d/31d
Frame/Model AK-50
Sensor/Trip 600.0 A
Settings Phase
LTPU, (0.5 - 1.1 x P) 90 % (540A)
LTD, (3 - 30s) Min-3
INST, (4 - 12L x PU) 10L (5400A)

BKR_GEAR 1 G - DRLHB1
Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
LTPU (0.2-1.0 x S) 1 (600A)
LTD (2.0-30.0 Secs) 30
STPU, (150 - 1200% x LTPU) 1200% (7200A)
STD, (0.07 - 0.4s) 0.4 (I^s T Off)
INST (1.5-12 x LTPU) 12 (7200A)

BKR_GEAR 1 G - DIETARY (DK4)
Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
LTPU (0.2-1.0 x S) 0.67 (402A)
LTD (2.0-30.0 Secs) 10
INST (1.5-12 x LTPU) 6 (2412A)

BKR_GEAR 1 G - MCC 1
Manufacturer GE
Type AK-15 & -25, EC-2 & EC-2A
Frame/Model AK-25
Sensor/Trip 400.0 A
Settings Phase
LTPU (1.0 x S) 1 (400A); Int-1B
INST (4-9 x S) 5 (2000A)

BKR_GEAR 1 G - NEW AC[ATS CRH]
Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
LTPU (0.2-1.0 x S) 0.8 (480A)
LTD (2.0-30.0 Secs) 5
INST (1.5-12 x LTPU) 7.5 (3600A)

One-line diagram labels:
BKR_GEAR 1 G - MAIN
SWBD_GEAR 1 G
BKR_GEAR 1 G - NEWAC[ATSCRH]
BKR_GEAR 1 G - MCC 1
BKR_GEAR 1 G - DIETARY (DK4)
BKR_GEAR 1 G - DRLHB1
BKR_GEAR 1 G - ICU
BKR_GEAR 1 G - ICUATSEQ3
BKR_GEAR 1 F - GEAR 1 G[TIE]

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_046_SWBD_GEAR 1 G
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
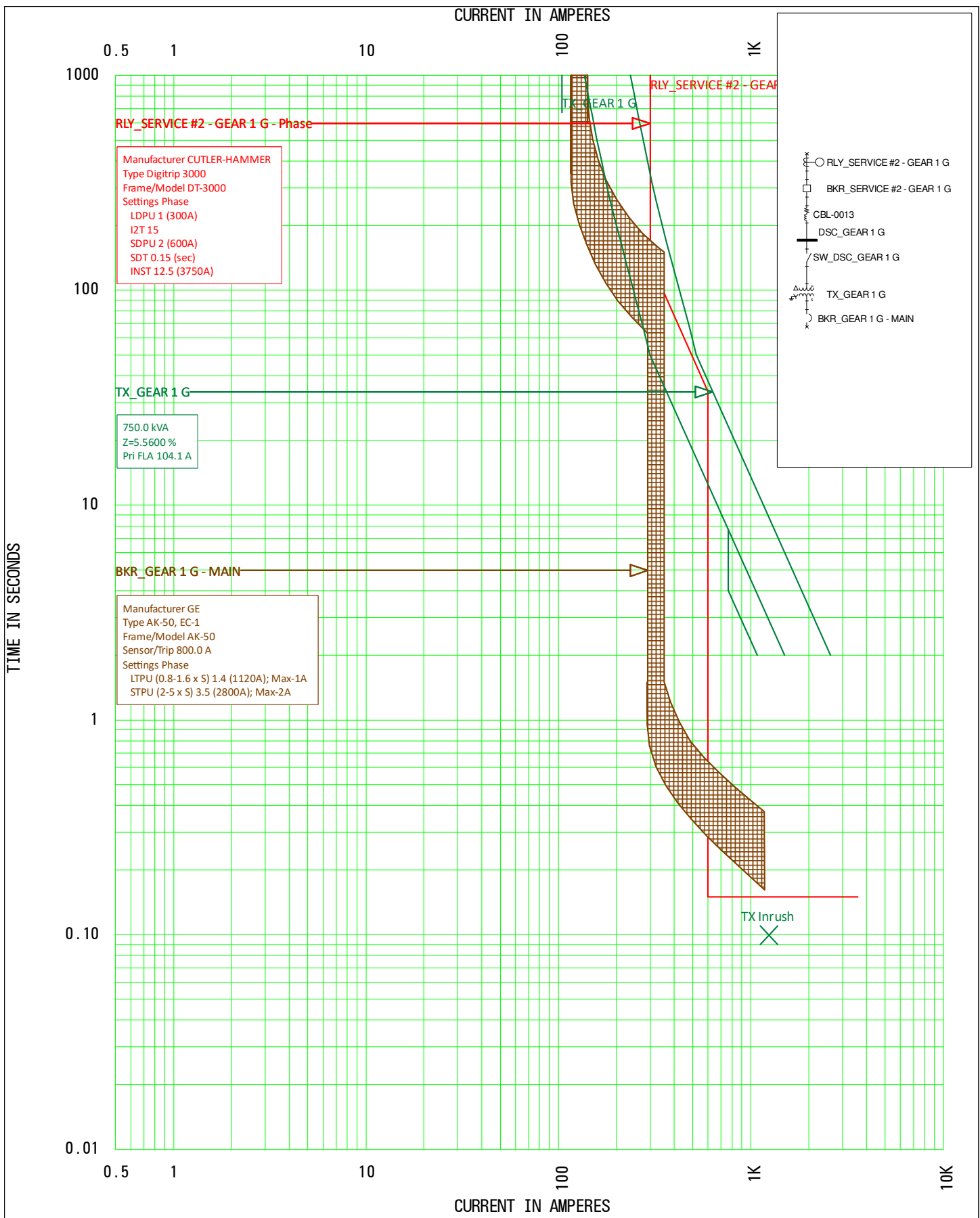Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - ICU

Manufacturer GE/ SATIN AMERICAN
Type AK-50, ETC 11d/21d/31d
Frame/Model AK-50
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.5 - 1.1 x P) 90 % (540A)
  LTD, (3 - 30s) Min-3
  INST, (4 - 12L x PU) 10L (5400A)

BKR_ICU[NORMAL] - TSC

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

BKR_ICU[NORMAL] - TSS

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 30.0 A
Settings Phase
  Fixed

BKR_ICU[NORMAL] - TSE

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (2250A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 G - ICU
CBL-0130
PNL_ICU [NORMAL]
BKR_ICU[NORMAL] - TSE
BKR_ICU[NORMAL] - TSS
BKR_ICU[NORMAL] - TSC

TCC Name: TCC_047_PNL_ICU [NORMAL]
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
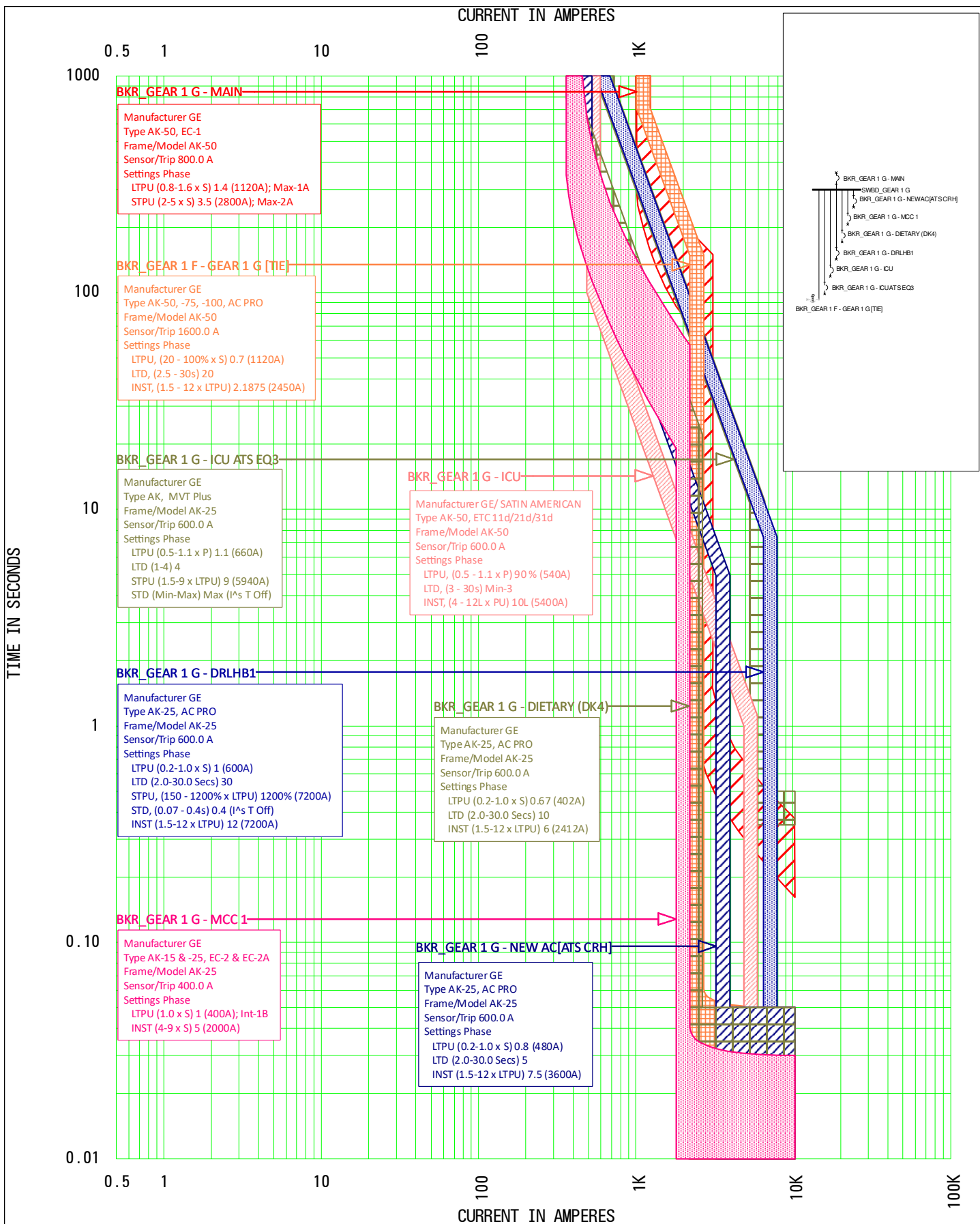Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - LD4

Manufacturer GE
Type AK, Digitrip RMS/R 500/600/700/800
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU 0.9 (540A)
  LTD 10
  STPU 6 (3600A)
  STD/I2t 0.1 (I^s T Off)
  INST 2 (1200A)

BKR_LD4 - LD2

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (4.5-10 x Trip) HI (1750A)

BKR_LD4 - CATH LAB

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 50.0 A
Settings Phase
  Fixed

BKR_LD4 - D2_A8

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 90.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_GEAR 1 G - LD4
CBL-0129
PNL_LD4
BKR_LD4 - D2_A8
BKR_LD4 - CATH LAB
BKR_LD4 - LD2

TCC Name: TCC_051_PNL_LD4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
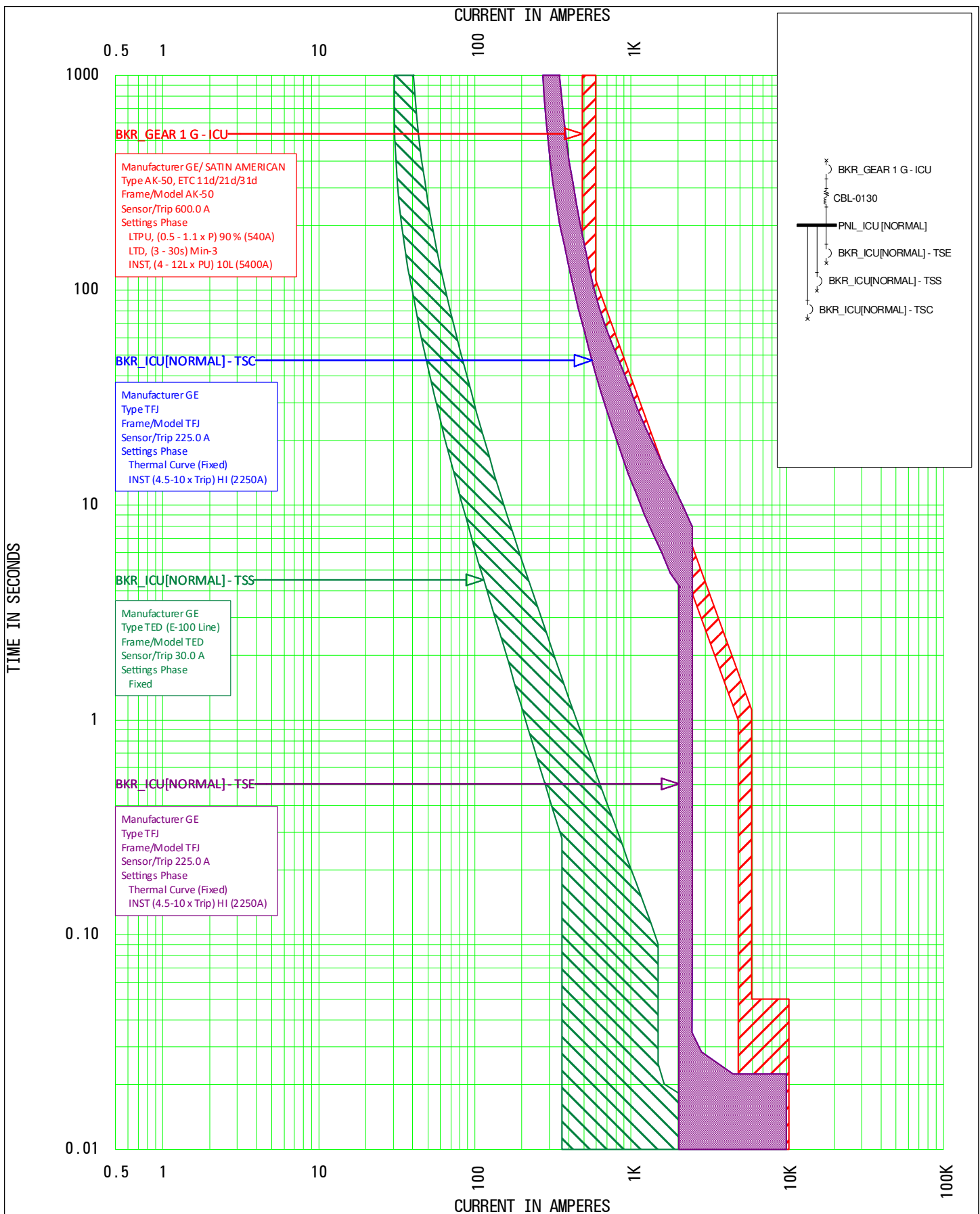Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_GEAR 1 G - DIETARY (DK4)

Manufacturer GE
Type AK-25, AC PRO
Frame/Model AK-25
Sensor/Trip 600.0 A
Settings Phase
  LTPU (0.2-1.0 x S) 0.67 (402A)
  LTD (2.0-30.0 Secs) 10
  INST (1.5-12 x LTPU) 6 (2412A)

BKR_DIETARY - DISHWSHR

Manufacturer GE
Type TED (E-100 Line)
Frame/Model TED
Sensor/Trip 70.0 A
Settings Phase
  Fixed

BKR_DIETARY - MCC3

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) LO (625A)

BKR_DIETARY - DK2

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (2500A)

TIME IN SECONDS

BKR_GEAR 1 G - DIETARY (DK4)
CBL-0132
PNL_DIETARY [DK4]
BKR_DIETARY - DK2
BKR_DIETARY - MCC3
BKR_DIETARY - DISHWSHR

CURRENT IN AMPERES

TCC Name: TCC_052_PNL_DIETARY [DK4]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
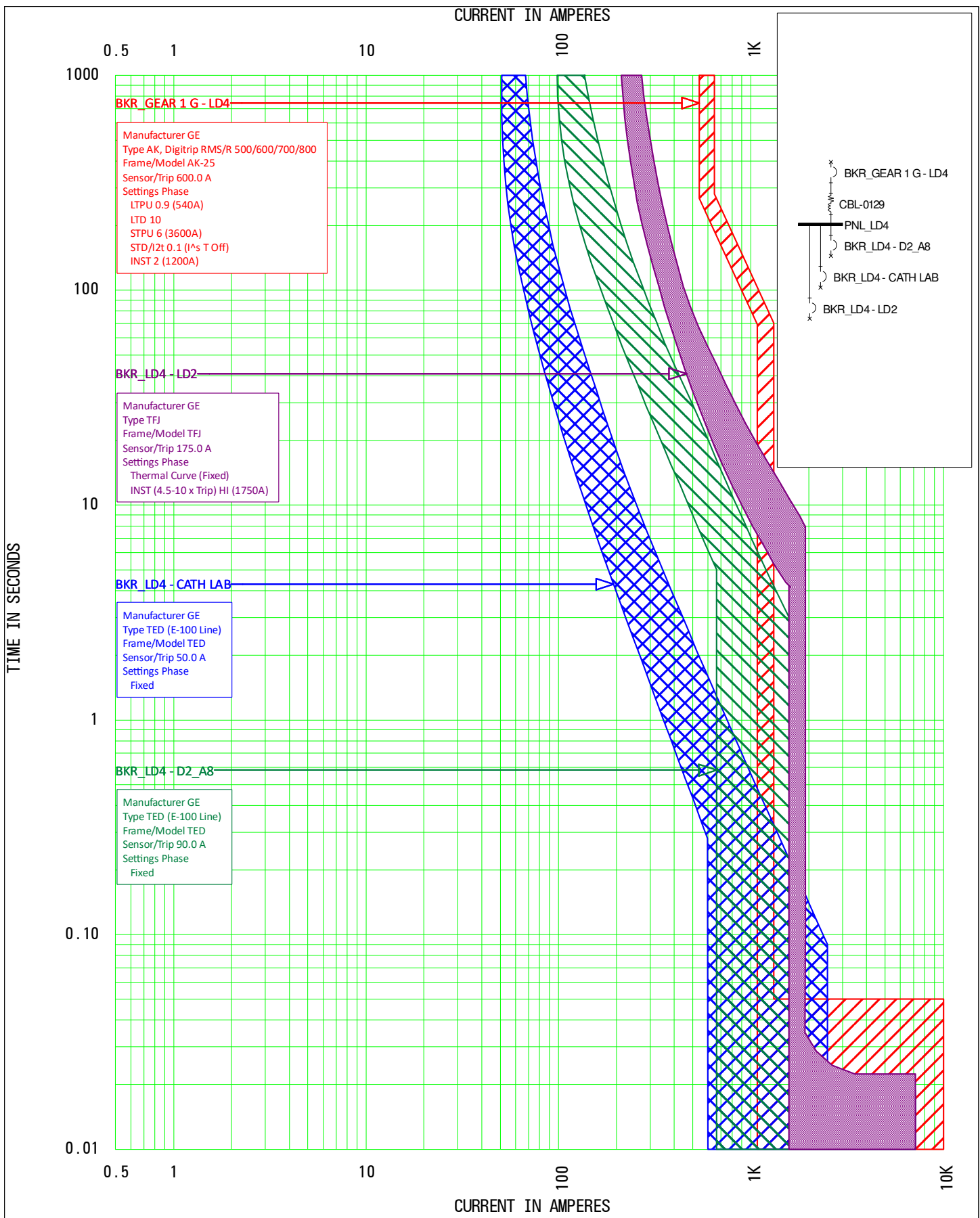Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DIETARY - DK2

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (2500A)

TX_DK2

150.0 kVA
Z=5.0000 %
Pri FLA 180.4 A

BKR_DK2 - PC

Manufacturer GE
Type TEB
Frame/Model TEB
Sensor/Trip 90.0 A
Settings Phase
  Fixed

BKR_DK - PK 1-2-3-4

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
  Fixed

BKR_DK - KP1

TX Inrush

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (4000A)

TX_DK2

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DIETARY - DK2
CBL-0231_1
TX_DK2
CBL-0388_1
PNL_DK2
BKR_DK - KP1
BKR_DK - PK 1-2-3-4
BKR_DK2 - PC

TCC Name: TCC_053_TX_DK2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DK - PK 1-2-3-4

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 125.0 A
Settings Phase
    Fixed

BKR_PK2 - MAIN

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 225.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST (4.5-10 x Trip) HI (2250A)

BKR_PK2 - PK3A

Manufacturer GE
Type TED (E-150 Line)
Frame/Model TED
Sensor/Trip 150.0 A
Settings Phase
    Fixed

BKR_PK2 - RECIEVE

Manufacturer GE
Type TEB
Frame/Model TEB
Sensor/Trip 50.0 A
Settings Phase
    Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DK - PK 1-2-3-4
CBL-0233_1
CBL-0239_1
BKR_PK2 - MAIN
PNL_PK2
BKR_PK2 - RECIEVE
BKR_PK2 - PK3A

TCC Name: TCC_054_PNL_PK2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
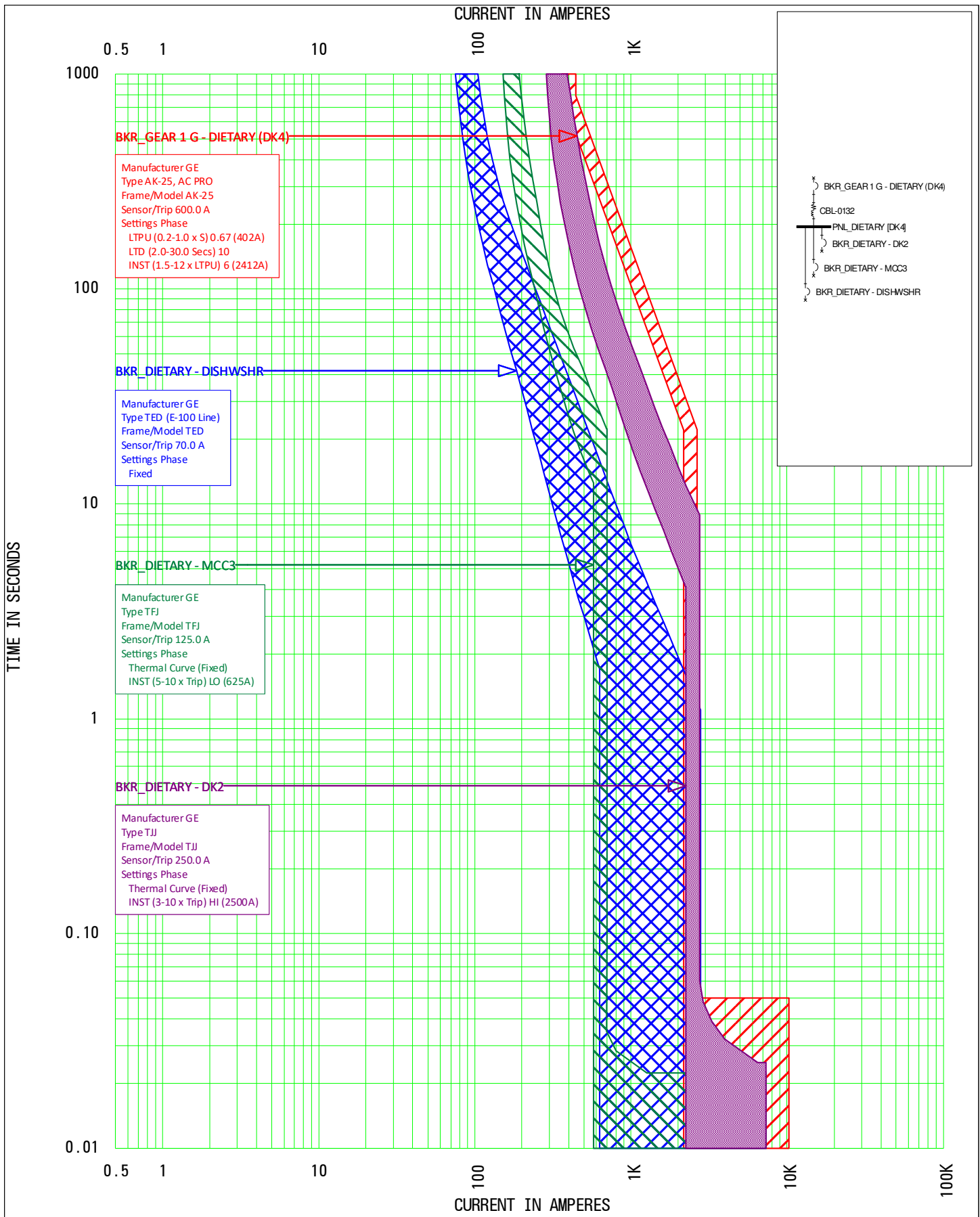Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

FU_DSC_MED SURGE

Manufacturer S&C
Type SM-4, 7.2kV E-Rated
Frame/Model SM-4, 200E
Sensor/Trip 200.0 A
Settings Phase
  200 Amps

TX_MED SURGE

300.0 kVA
Z=5.0000 %
Pri FLA 41.6 A

BKR_MED SURGE - MAIN

Manufacturer ITE
Type K-Line, OD-4
Frame/Model K-1600
Sensor/Trip 1600.0 A
Settings Phase
  LTPU w/Delay 1600A (1600A); MAX
  STPU w/Delay 16000A (16000A); MAX

TX_MED SURGE

TX Inrush

FU_DSC_MED SURGE

TX_MED SURGE

CBL-0022

BKR_MED SURGE - MAIN

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_056_TX_MED SURGE
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
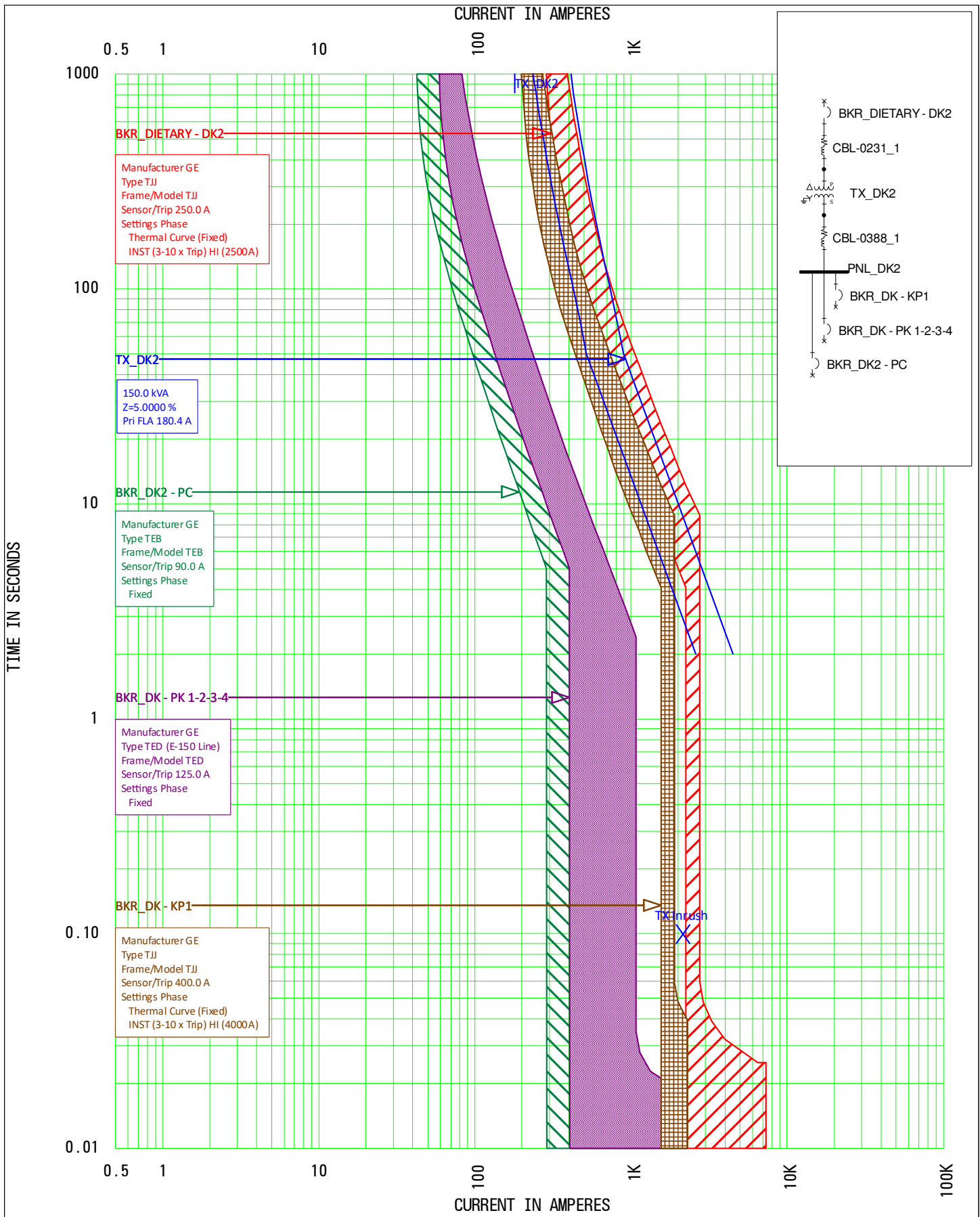Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MED SURGE - MAIN

Manufacturer ITE
Type K-Line, OD-4
Frame/Model K-1600
Sensor/Trip 1600.0 A
Settings Phase
    LTPU w/Delay 1600A (1600A); MAX
    STPU w/Delay 16000A (16000A); MAX

BKR_MED SURGE [EMERG] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST HIGH (3500A)

BKR_MED SURGE [NORMAL] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST HIGH (3500A)

TIME IN SECONDS

BKR_MED SURGE - MAIN
SWBD_MED SURGE
CBL-0300_1
BKR_MED SURGE [EMERG] - MAIN
CBL-0299_1
BKR_MED SURGE [NORMAL] - MAIN

CURRENT IN AMPERES

CURRENT IN AMPERES

BKR_MED SURGE [NORMAL] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST HIGH (3500A)

BKR_MED SURGE [N] - LG2C

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (800-1550A) 1550 (1550A)

BKR_MED SURGE [N] - LOWER SEC

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 300.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - PG#8

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - CR2A

Manufacturer ITE
Type JL
Frame/Model 225
Sensor/Trip 225.0 A
Settings Phase
  LTD
  INST 8.9 (2002.5A)

BKR_MED SURGE [N] - MS3 ELEV

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - LG1

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 175.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - PB

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_MED SURGE [N] - GEN_BACKUP

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 300.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (1900A)

BKR_DSC_LGA-ER-ICU

Manufacturer GE
Type TJK
Frame/Model TJK
Sensor/Trip 225.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (2250A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MED SURGE [NORMAL] - MAIN
PNL_MED SURGE [N]
CBL-0306_2
DSC_LGA-ER-TCU
BKR_DSC_LGA-ER-ICU
BKR_MED SURGE [N] - GEN_BACKUP
BKR_MED SURGE [N] - PB
BKR_MED SURGE [N] - LG1
BKR_MED SURGE [N] - MS3 ELEV
BKR_MED SURGE [N] - CR2A
BKR_MED SURGE [N] - PG#8
BKR_MED SURGE [N] - LOWER SEC
BKR_MED SURGE [N] - LG2C

TCC Name: TCC_058_PNL_MED SURGE [N]
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
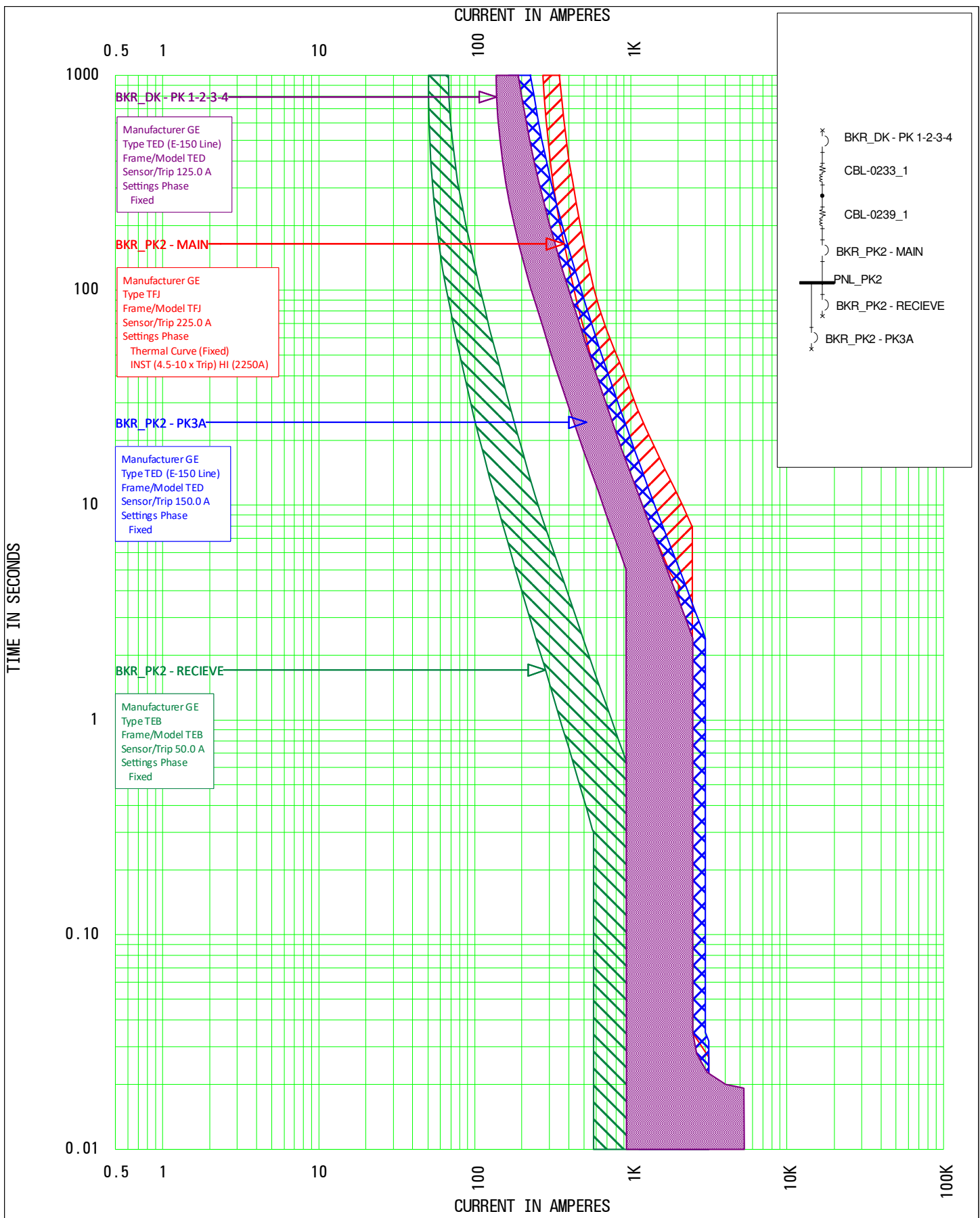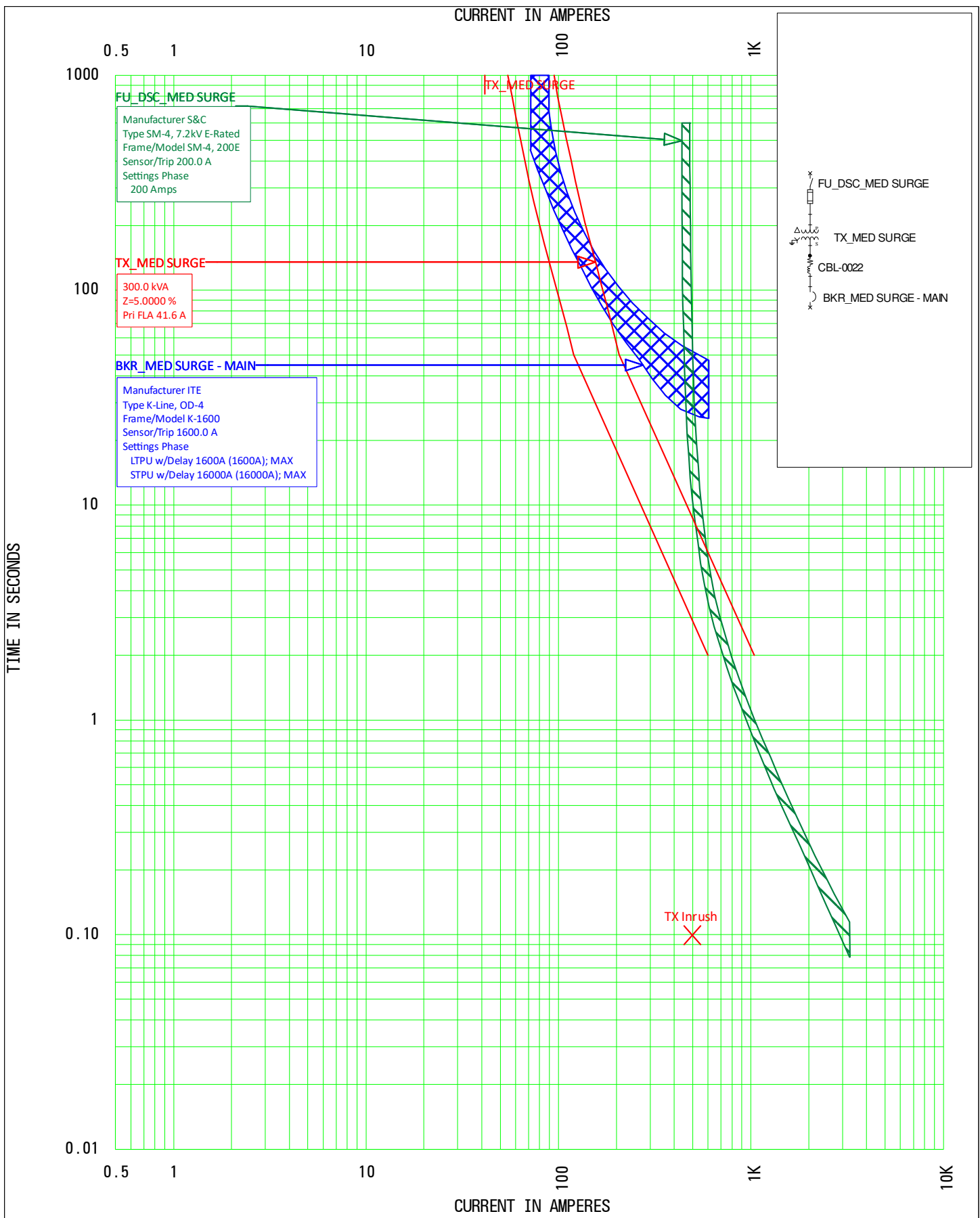Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_MED SURGE [EMERG] - MAIN

Manufacturer ITE
Type ET, LM Frame
Frame/Model LM Frame
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST HIGH (3500A)

BKR_MED SURGE [E] - PENTHOUSE

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (800-1550A) 1550 (1550A)

BKR_MED SURGE [E] - P.E.

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 125.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (800-1550A) 1550 (1550A)

BKR_MED SURGE [E] - LG1C-1,2,3

Manufacturer ITE
Type ET, JK Frame
Frame/Model JK
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST LOW (960A)

BKR_DSC_MED SURGE [E]

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 350.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (3-10 x Trip) HI (3500A)

BKR_MED SURGE [E] - L2-A,B

Manufacturer ITE
Type ET, L Frame
Frame/Model L Frame
Sensor/Trip 200.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (1050-2250A) 1050 (1050A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_MED SURGE [EMERG] - MAIN
PNL_MED SURGE [E]
BKR_MED SURGE [E] - L2-AB
CBL-0413
DSC_MED SURGE [E]
BKR_DSC_MED SURGE [E]
BKR_MED SURGE [E] - LG1C-1,2,3
BKR_MED SURGE [E] - P.E.
BKR_MED SURGE [E] - PENTHOUSE

TCC Name: TCC_059_PNL_MED SURGE [E]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 208V
Lowell General Hospital
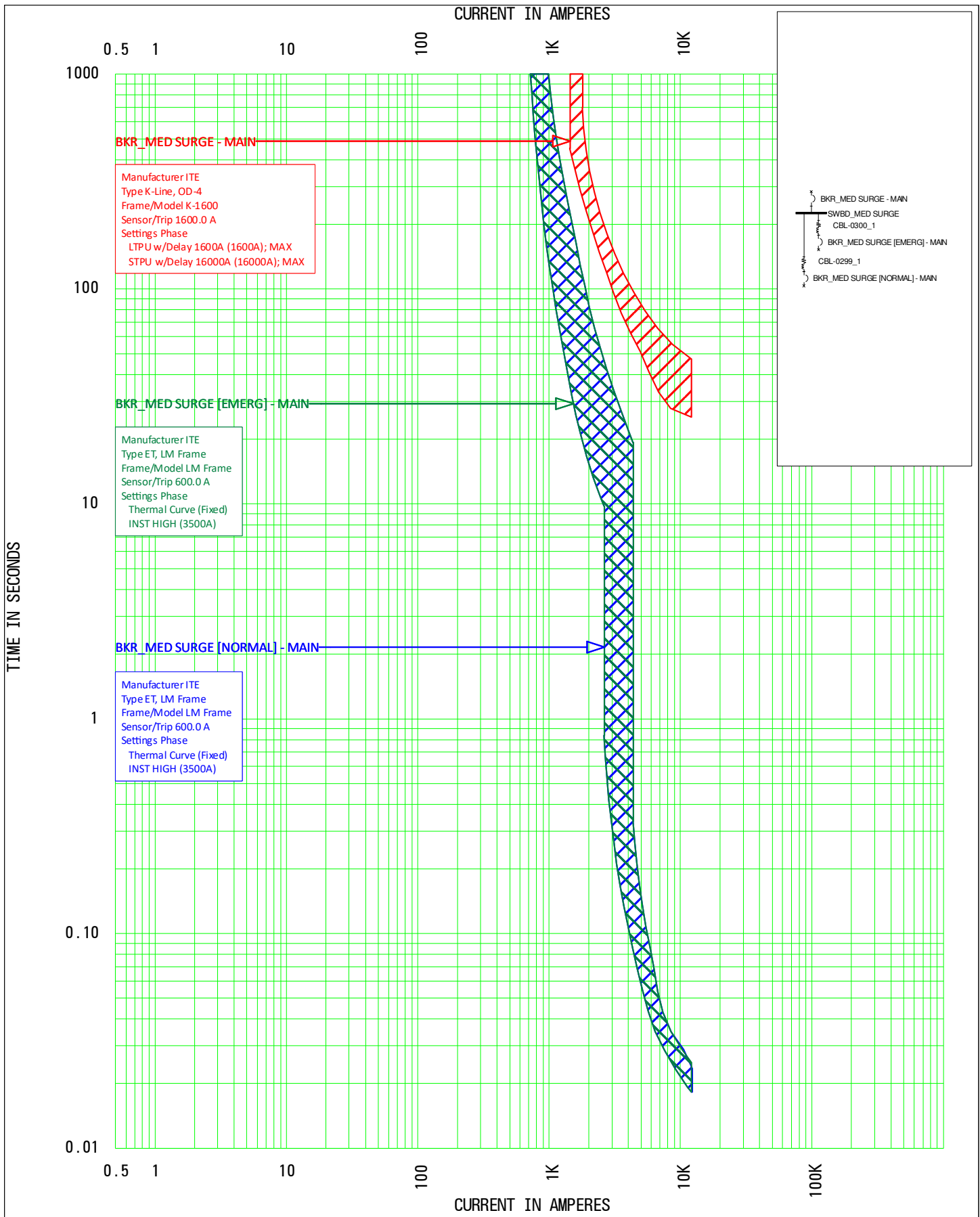Main Campus

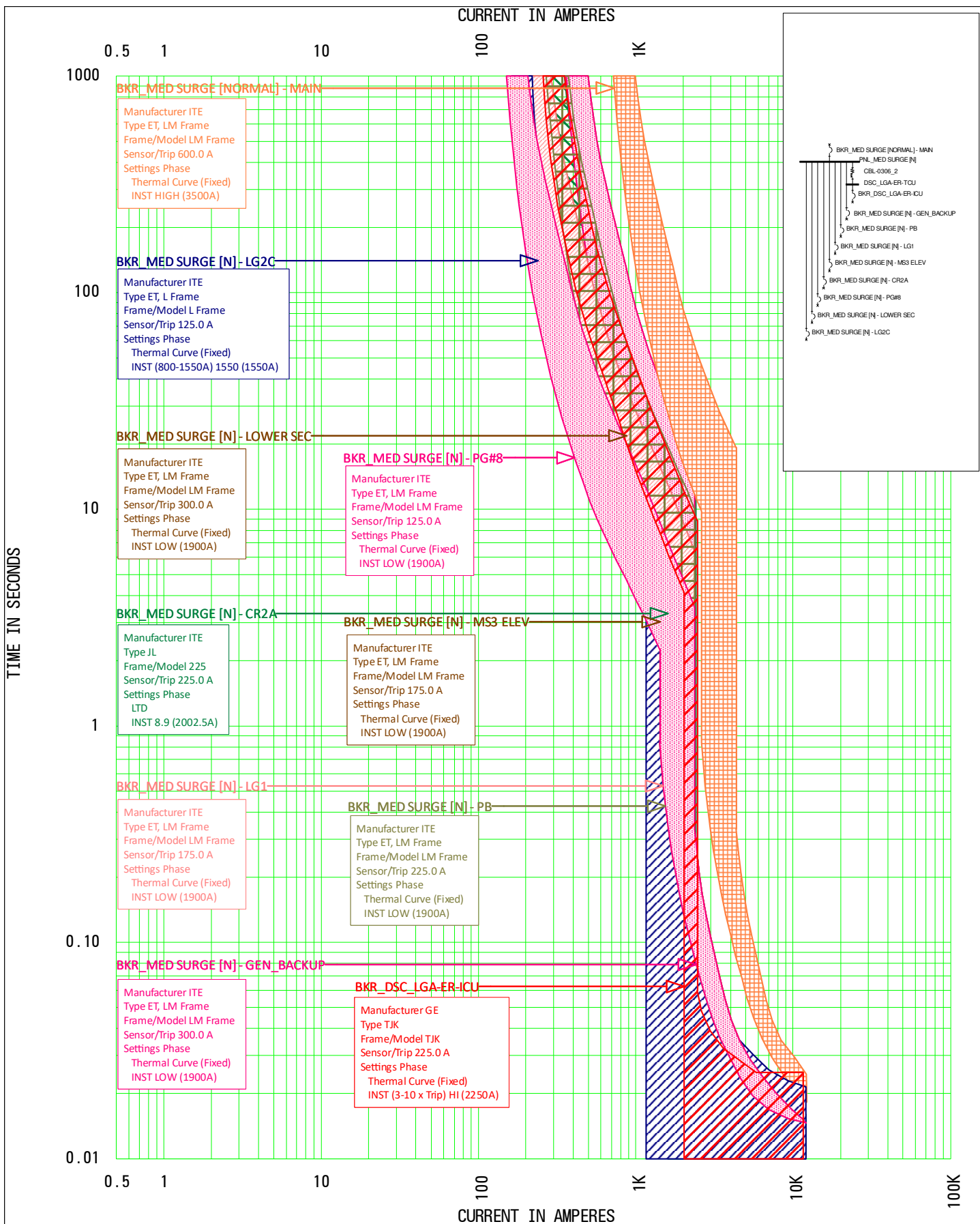**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #3 - MAIN

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 3
  SDPU 8 (2400A)
  SDT 0.5 (sec)
  INST NONE (29999700A)

RLY_SERVICE #3 - DT-1

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 10
  SDPU 3.5 (1050A)
  SDT 0.5 (sec)
  INST 10 (3000A)

RLY_SERVICE #3 - DT-2

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 10
  SDPU 3.5 (1050A)
  SDT 0.5 (sec)
  INST 10 (3000A)

RLY_SERVICE #3 - PPSS3

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (200A)
  I2T 3
  SDPU 6 (1200A)
  SDT 0.2 (sec)
  INST NONE (19999800A)

RLY_SERVICE #3 - MAIN
RLY_SERVICE #3 - DT-1
RLY_SERVICE #3 - DT-2
RLY_SERVICE #3 - PPSS3

TIME IN SECONDS

CURRENT IN AMPERES

- RLY_SERVICE #3 - MAIN
- BKR_SERVICE #3 - MAIN
- CBL-0045
- SWBD_SERVICE #3
- RLY_SERVICE #3 - PPSS3
- BKR_SERVICE #3 - PPSS3
- RLY_SERVICE #3 - DT-2
- BKR_SERVICE #3 - DT-2
- RLY_SERVICE #3 - DT-1
- BKR_SERVICE #3 - DT-1

TCC Name: TCC_060_SWBD_SERVICE #3
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
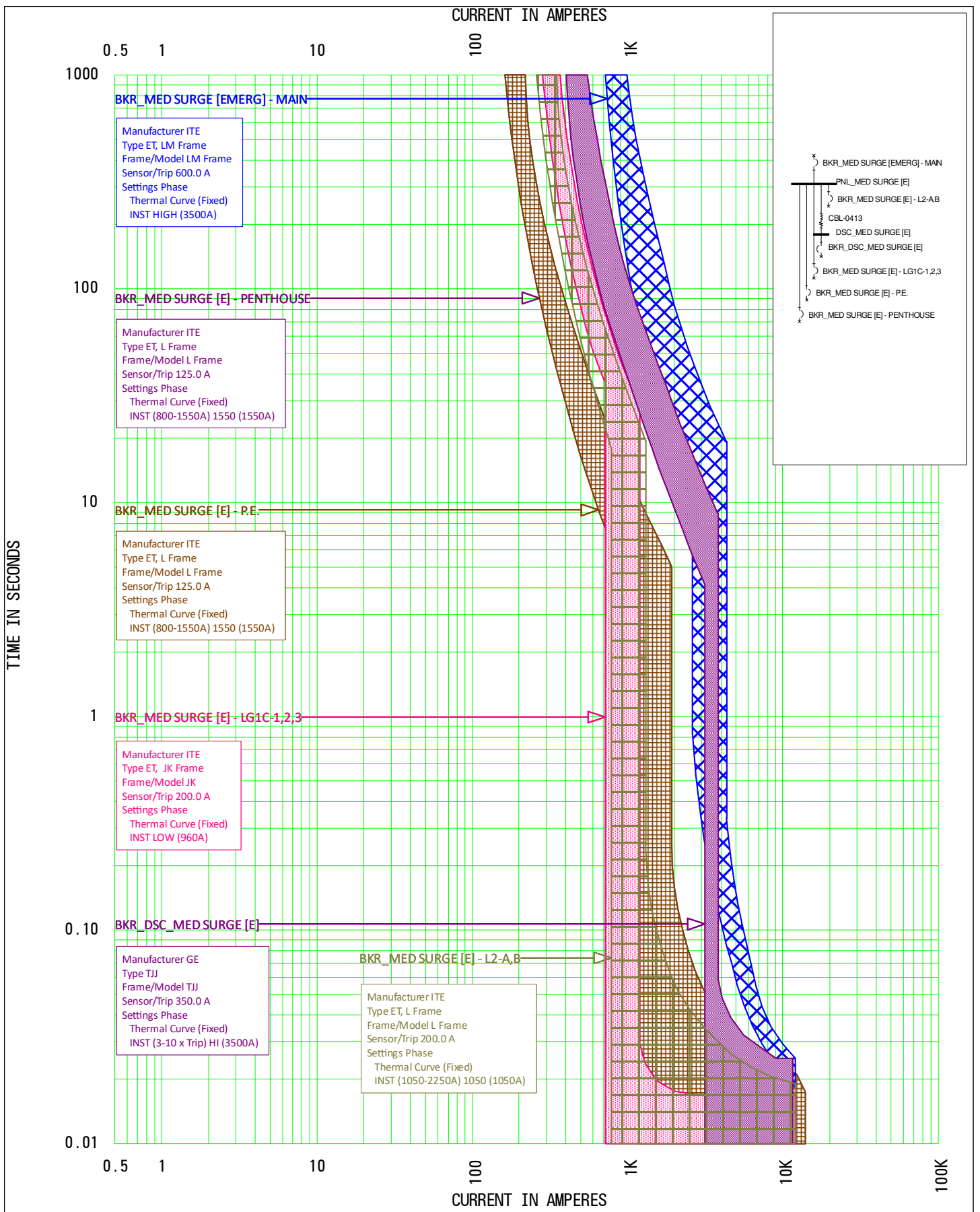Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_SERVICE #3 - DT-1

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
LDPU 1 (300A)
I2T 10
SDPU 3.5 (1050A)
SDT 0.5 (sec)
INST 10 (3000A)

TX_DT-1

2000.0 kVA
Z=5.7100 %
Pri FLA 277.6 A

BKR_DT-1 - NP-LB-1

Manufacturer ABB
Type EMAX, PR121
Frame/Model E3S-A
Sensor/Trip 3200.0 A
Settings Phase
LTPU 1 (3200A)
LTD 3
STPU 1.5 (4800A)
STD-I2T 0.3 (I^s T On)

BKR_NP-LB-1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
LTPU, (0.4 - 1 x In) 1.000 (3200A)
LTD-I2T, (2-24s) 6
STPU, (200-1200A SF) 1.500 (4800A)
STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
INST, (200-1200A STD) OFF

TX Inrush

One-line diagram:
- RLY_SERVICE #3 - DT-1
- BKR_SERVICE #3 - DT-1
- CBL-0218_2
- TX_DT-1
- BKR_DT-1 - NP-LB-1
- CBL-0202
- BKR_NP-LB-1 - MAIN

CURRENT IN AMPERES

TCC Name: TCC_061_TX_DT-1
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 4160V
Lowell General Hospital
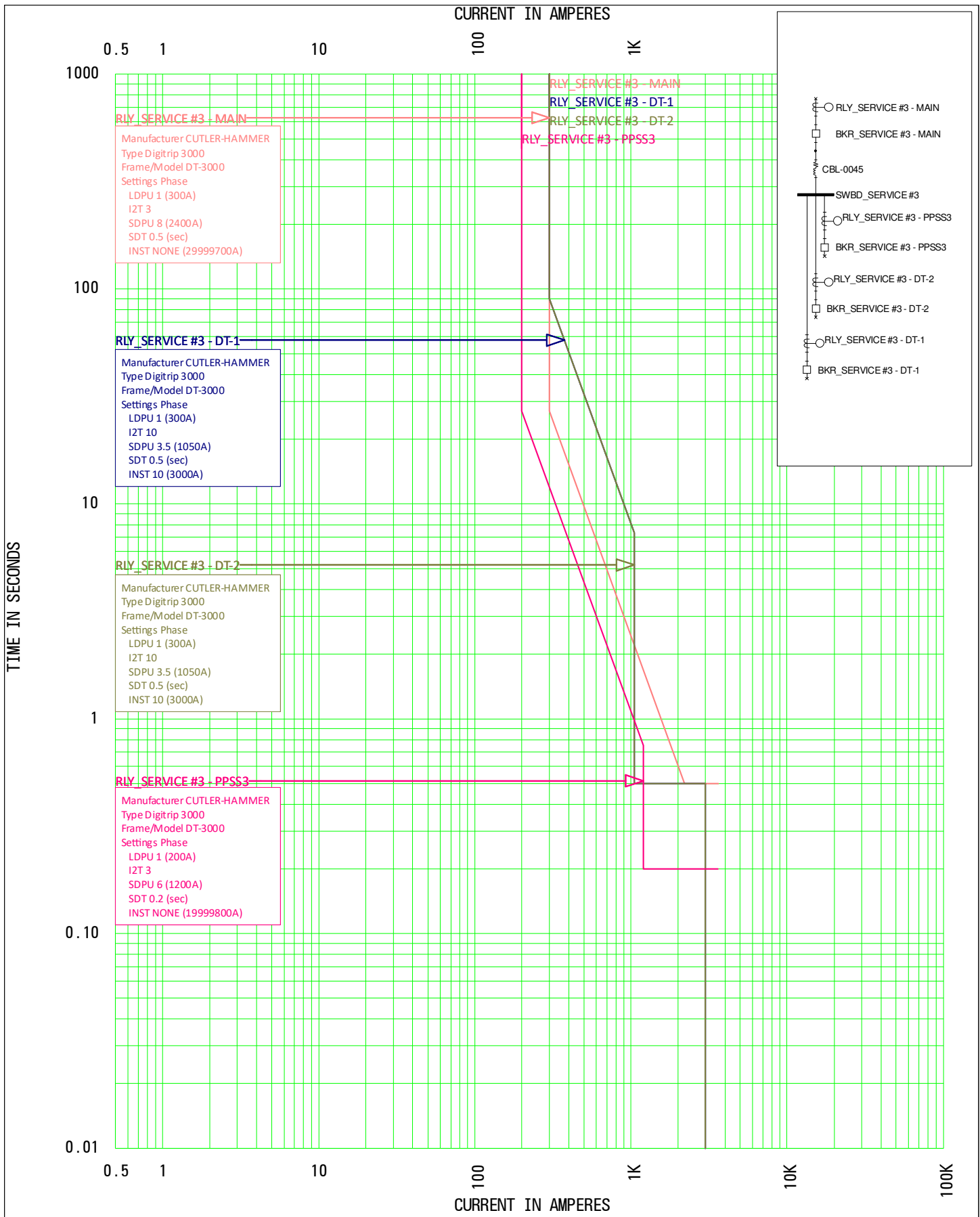Main Campus
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (3200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - NP-LB-2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (3200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - ATS-EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (400A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 8.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - NP-PH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (1200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.000 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (6000A)

BKR_NP-LB-1 - ATS-CB4 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 8.000 (1200A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_062a_SWGR_NP-LB-1_ph
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
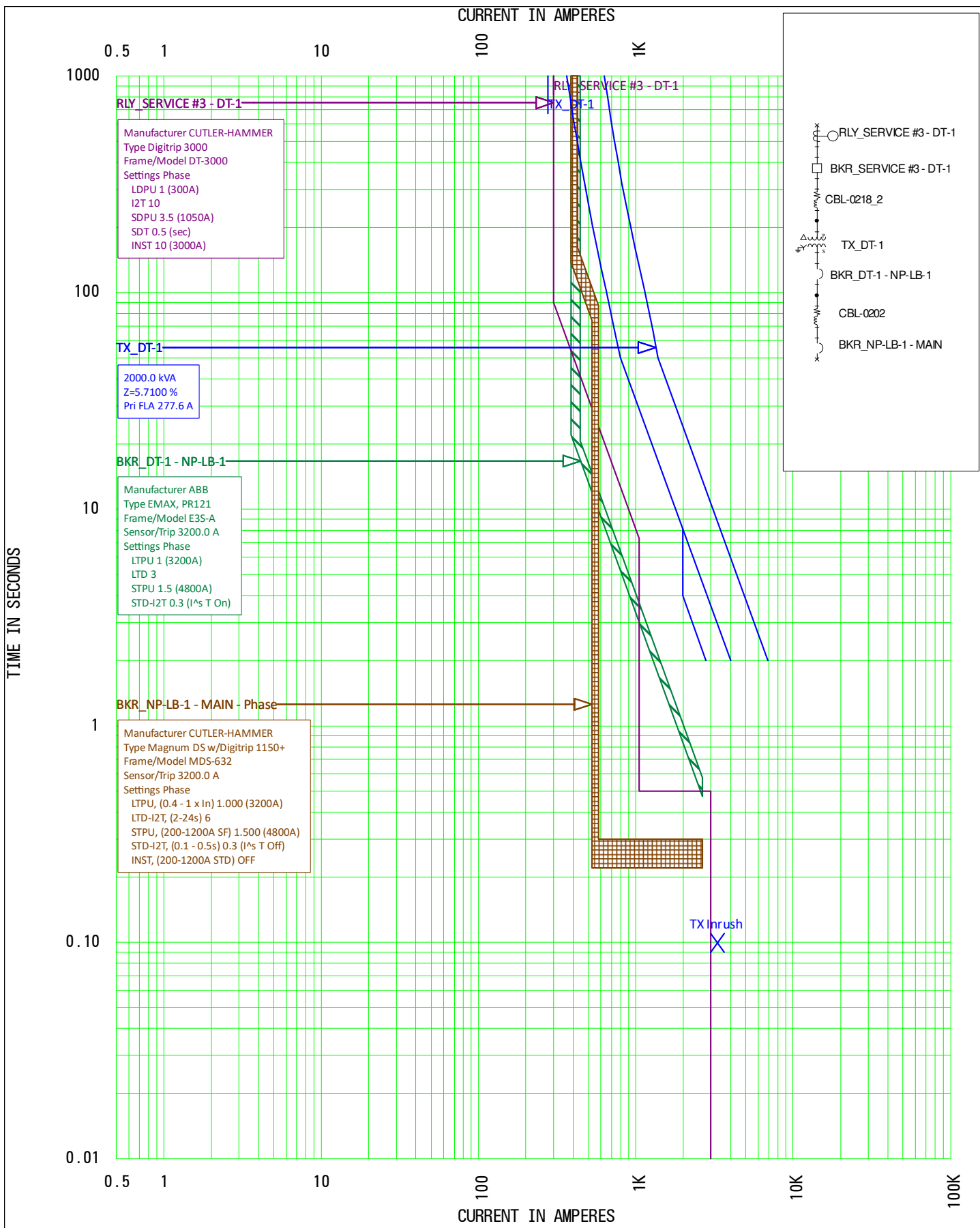Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (800A)
  GFD, (0.1 - 0.5s) 0.35 (I^s T Off)

BKR_NP-LB-1 - NP-LB-2 [TIE] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (800A)
  GFD, (0.1 - 0.5s) 0.35 (I^s T Off)

BKR_NP-LB-1 - ATS-EQ2 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (100A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-1 - NP-PH - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.4 (480A)
  GFD, (0.1 - 0.5s) 0.3 (I^s T Off)

BKR_NP-LB-1 - ATS-CB4 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (50A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

TIME IN SECONDS

CURRENT IN AMPERES

- BKR_NP-LB-1 - MAIN
- SWGR_NP-LB-1
- BKR_NP-LB-1 - NP-LB-2 [TIE]
- BKR_NP-LB-1 - ATS-CB4
- BKR_NP-LB-1 - NP-PH
- BKR_NP-LB-1 - ATS-EQ2

TCC Name: TCC_062b_SWGR_NP-LB-1_ne
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
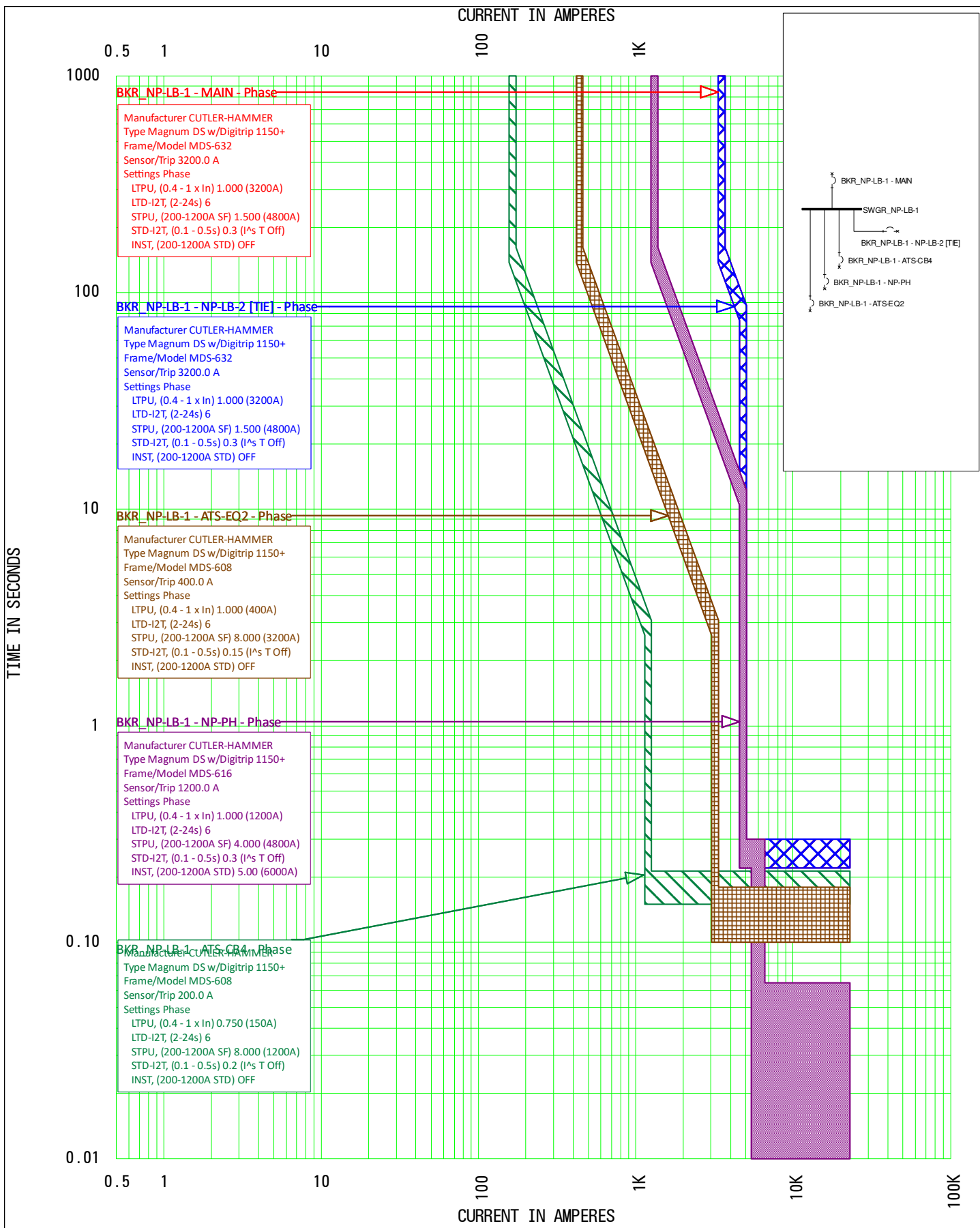Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-BH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-BH - NP-BL1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-BH - NP-BL2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-BH - NP-BL3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-BH
CBL-0096
PNL_NP-BH
BKR_NP-BH - NP-BL3
BKR_NP-BH - NP-BL2
BKR_NP-BH - NP-BL1

TCC Name: TCC_063_PNL_NP-BH
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
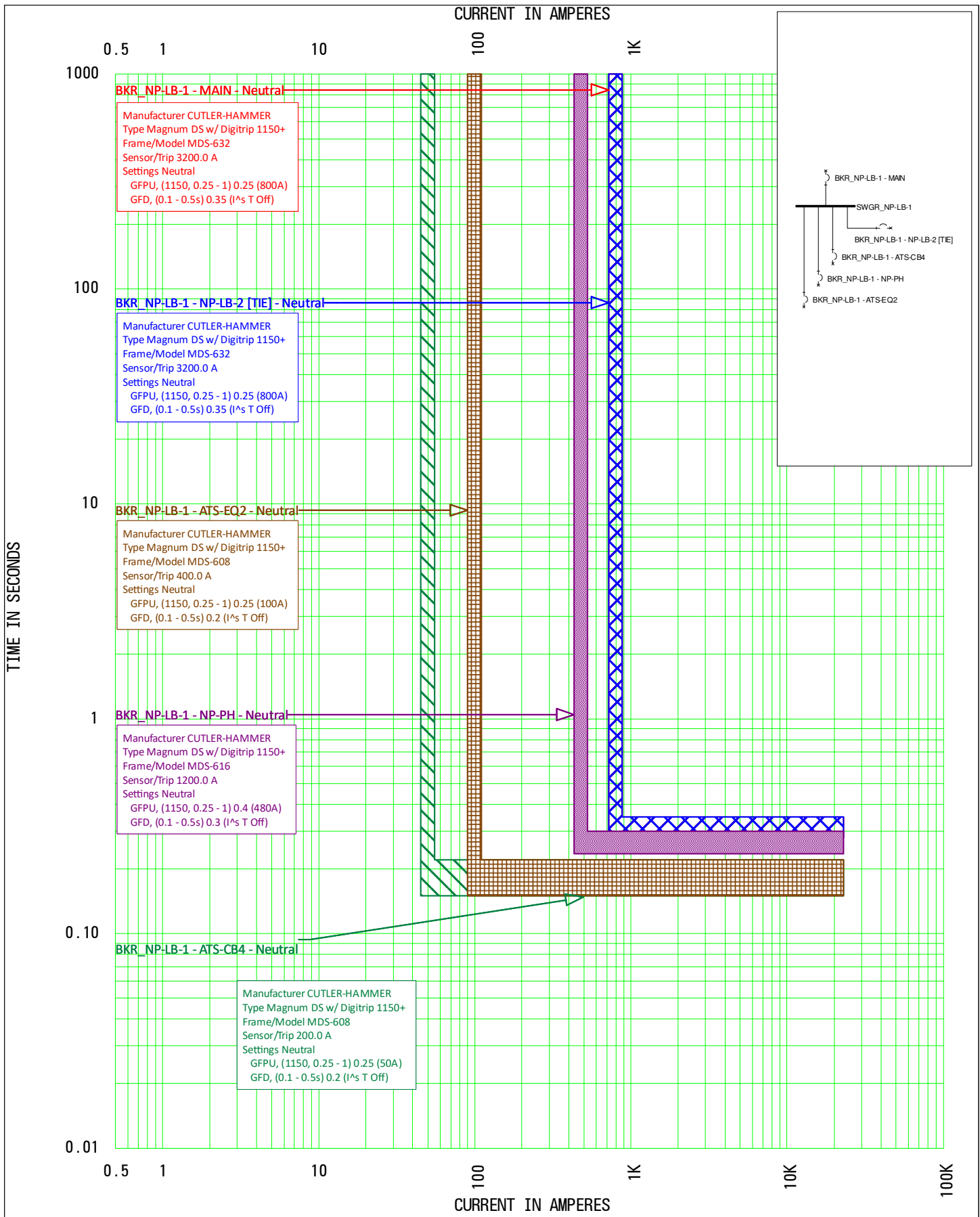Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-GH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-GH - NP-GL1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-GH - NP-GL2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-GH - NP-GL3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-GH
CBL-0097
PNL_NP-GH
BKR_NP-GH - NP-GL3
BKR_NP-GH - NP-GL2
BKR_NP-GH - NP-GL1

TCC Name: TCC_064_PNL_NP-GH
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
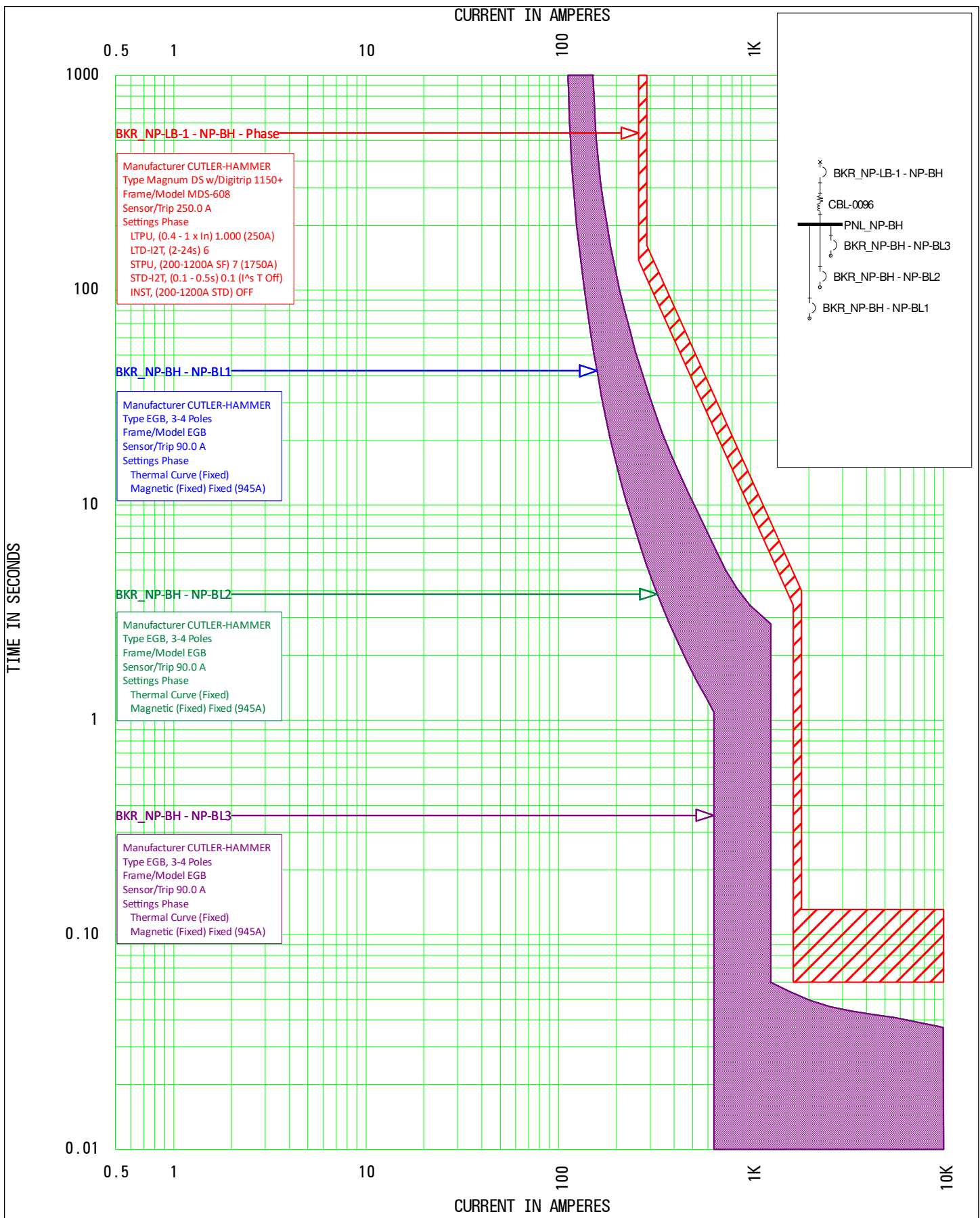Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-1H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-1H - NP-1L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-1H - NP-1L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-1H - NP-1L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-1H
CBL-0098
PNL_NP-1H
BKR_NP-1H - NP-1L3
BKR_NP-1H - NP-1L2
BKR_NP-1H - NP-1L1

TCC Name: TCC_065_PNL_NP-1H
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
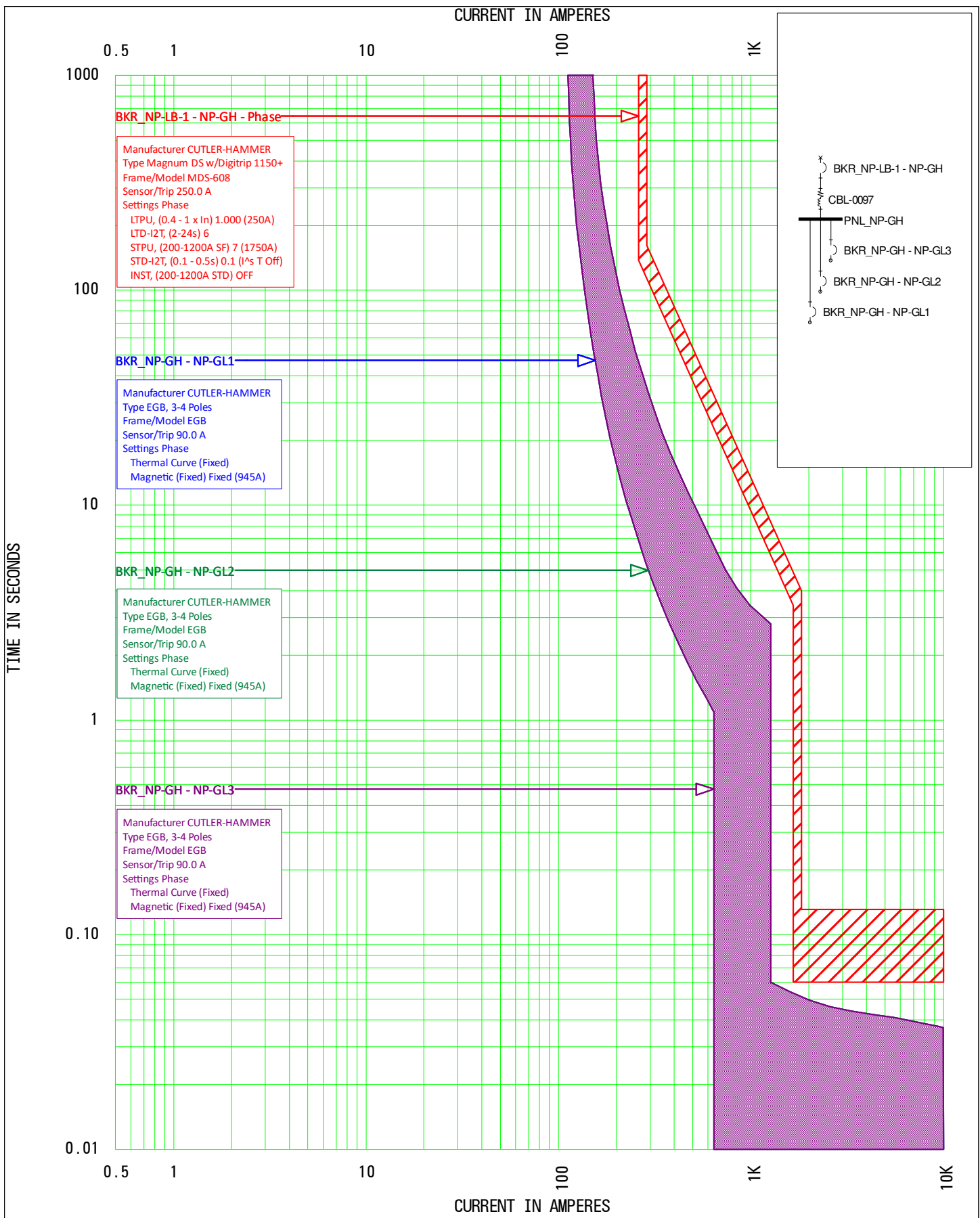Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-PH - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (1200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.000 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (6000A)

BKR_NPPH - SF3-A - Phase

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 225.0 A
Settings Phase
  Ir, 80A Sensor H (80) (80A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 2 (160A)
  STD FLAT (Inst-300ms) Inst (J,K,L)
  INST OR Fixed (2700A)

BKR_NP-LB-1 - NP-PH

CBL-0187

PNL_NP-PH

BKR_NPPH - SF3-A

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_066a_PNL_NP-PH_ph
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 480V
Lowell General Hospital
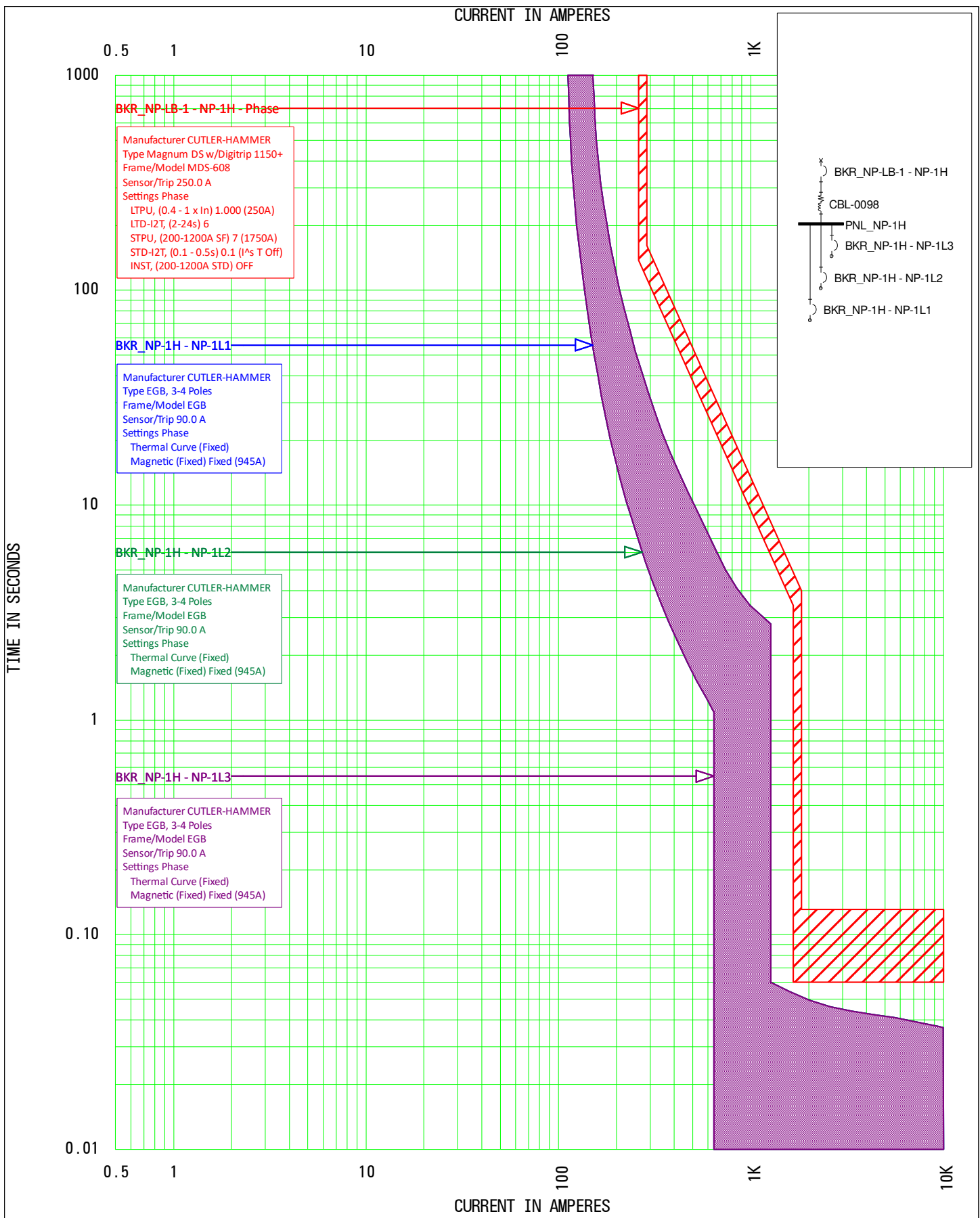Main Campus
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-PH - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.4 (480A)
  GFD, (0.1 - 0.5s) 0.3 (I^s T Off)

BKR_NPPH - SF3-A - Neutral

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 225.0 A
Settings Neutral
  GFPU, (0.2 - 1 x S) 0.2 (45A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - NP-PH

CBL-0187

PNL_NP-PH

BKR_NPPH - SF3-A

TCC Name: TCC_066b_PNL_NP-PH_ne
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
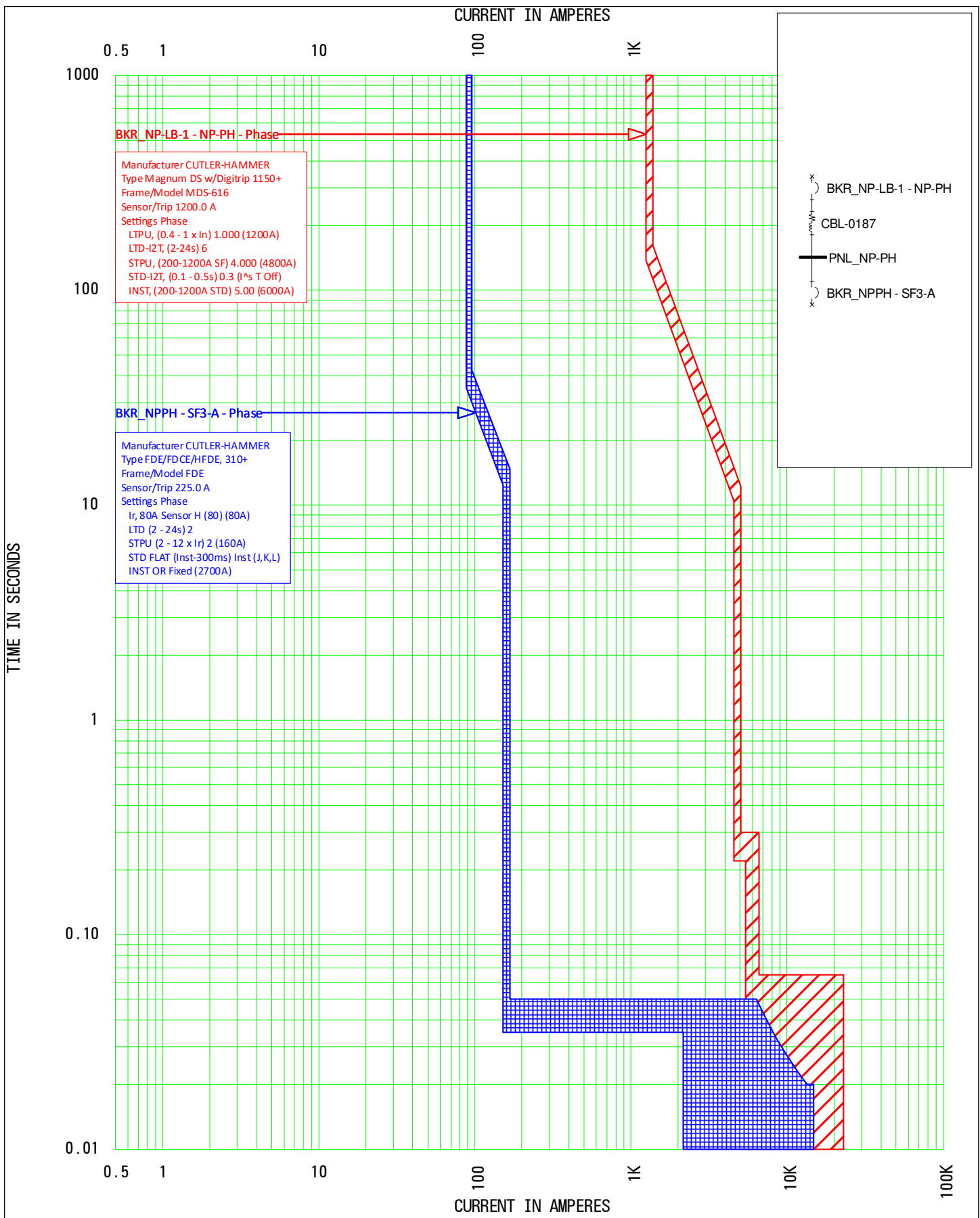Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #3 - DT-2

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (300A)
  I2T 10
  SDPU 3.5 (1050A)
  SDT 0.5 (sec)
  INST 10 (3000A)

TX_DT-2

2000.0 kVA
Z=5.7500 %
Pri FLA 277.6 A

BKR_DT-2 - NP-LB-2

Manufacturer ABB
Type EMAX, PR121
Frame/Model E3S-A
Sensor/Trip 3200.0 A
Settings Phase
  LTPU 1 (3200A)
  LTD 3
  STPU 1.5 (4800A)
  STD-I2T 0.3 (I^s T On)

BKR_NP-LB-2 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (3200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

TX Inrush

RLY_SERVICE #3 - DT-2
BKR_SERVICE #3 - DT-2
CBL-0219_1
TX_DT-2
BKR_DT-2 - NP-LB-2
CBL-0203
BKR_NP-LB-2 - MAIN

CURRENT IN AMPERES

TCC Name: TCC_067_TX_DT-2
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 4160V
Lowell General Hospital
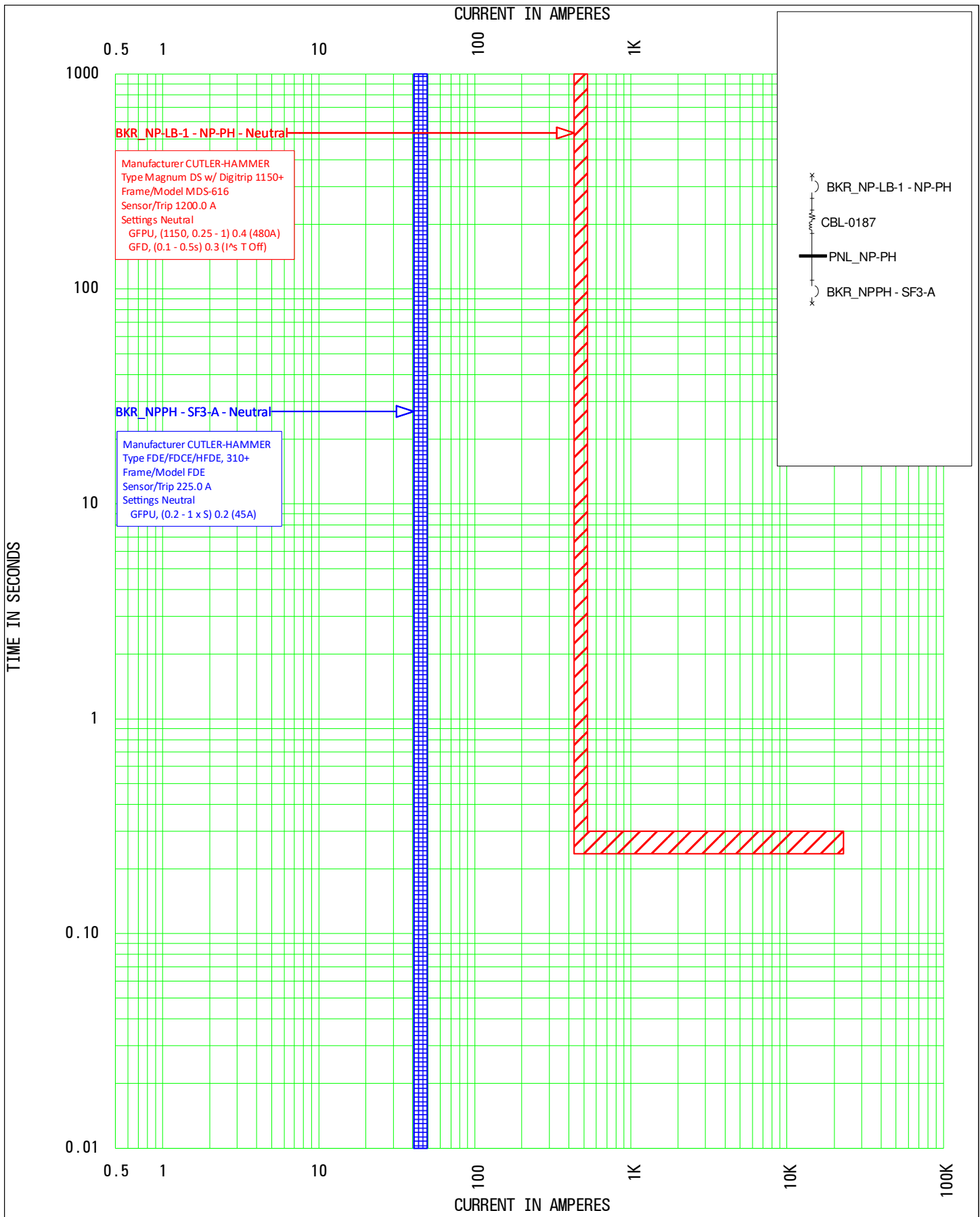Main Campus
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-2 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (3200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-1 - NP-LB-2 [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (3200A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (4800A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS CB2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 5 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS EQ1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS XR - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (900A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-2 - MAIN
SWGR_NP-LB-2
BKR_NP-LB-2 - ATS XR
BKR_NP-LB-2 - ATS EQ1
BKR_NP-LB-2 - ATS CB2
CBL-0073
BKR_NP-LB-1 - NP-LB-2 [TIE]

TCC Name: TCC_068a_SWGR_NP-LB-2_ph
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
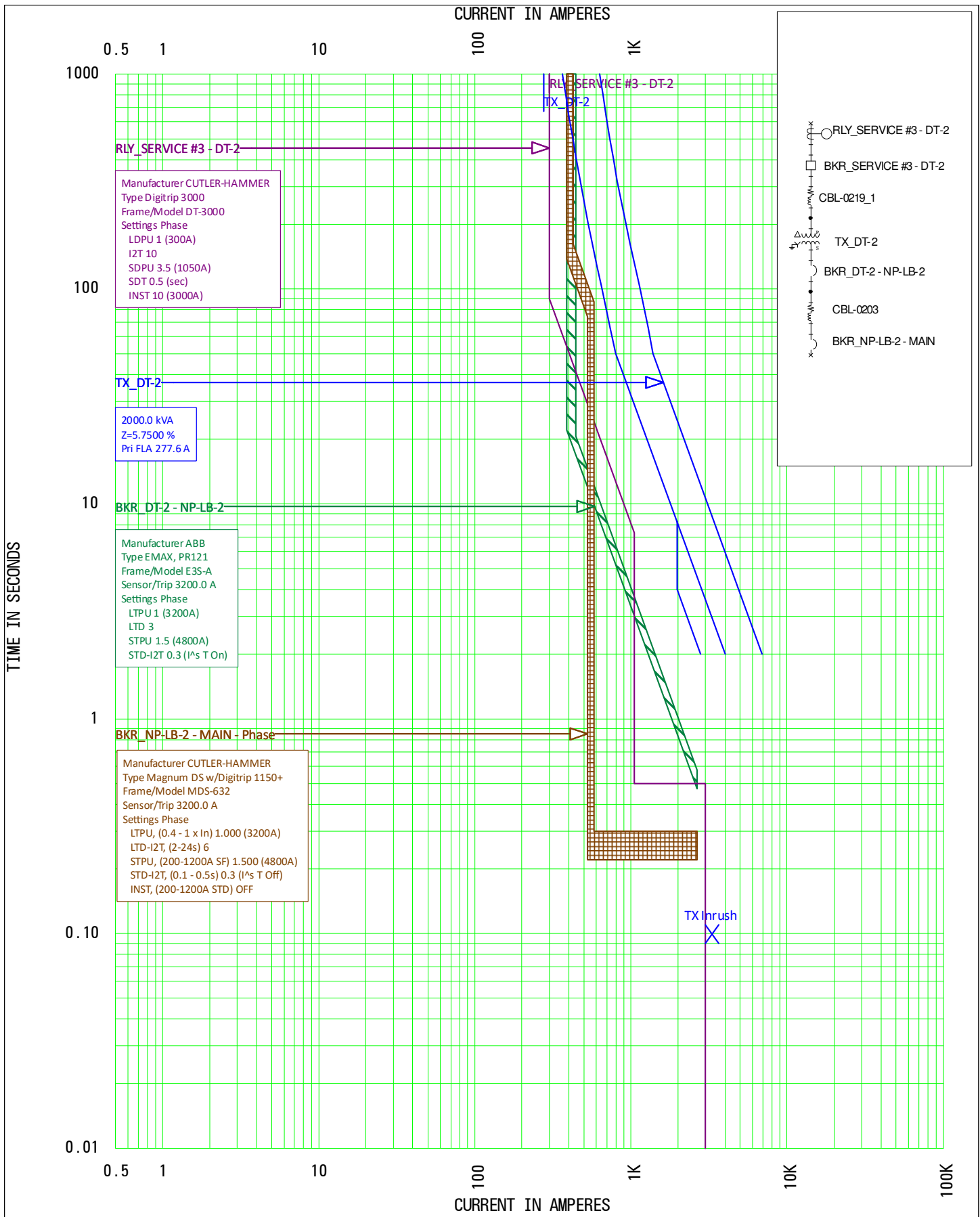Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-2 - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (800A)
  GFD, (0.1 - 0.5s) 0.35 (I^s T Off)

BKR_NP-LB-1 - NP-LB-2 [TIE] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-632
Sensor/Trip 3200.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (800A)
  GFD, (0.1 - 0.5s) 0.35 (I^s T Off)

BKR_NP-LB-2 - ATS CB2 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-2 - ATS EQ1 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)
  GFD, (0.1 - 0.5s) 0.2 (I^s T Off)

BKR_NP-LB-2 - ATS XR - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)
  GFD, (0.1 - 0.5s) 0.5 (I^s T Off)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-2 - MAIN
SWGR_NP-LB-2
BKR_NP-LB-2 - ATS XR
BKR_NP-LB-2 - ATS EQ1
BKR_NP-LB-2 - ATS CB2
CBL-0073
BKR_NP-LB-1 - NP-LB-2 [TIE]

TCC Name: TCC_068b_SWGR_NP-LB-2_ne
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
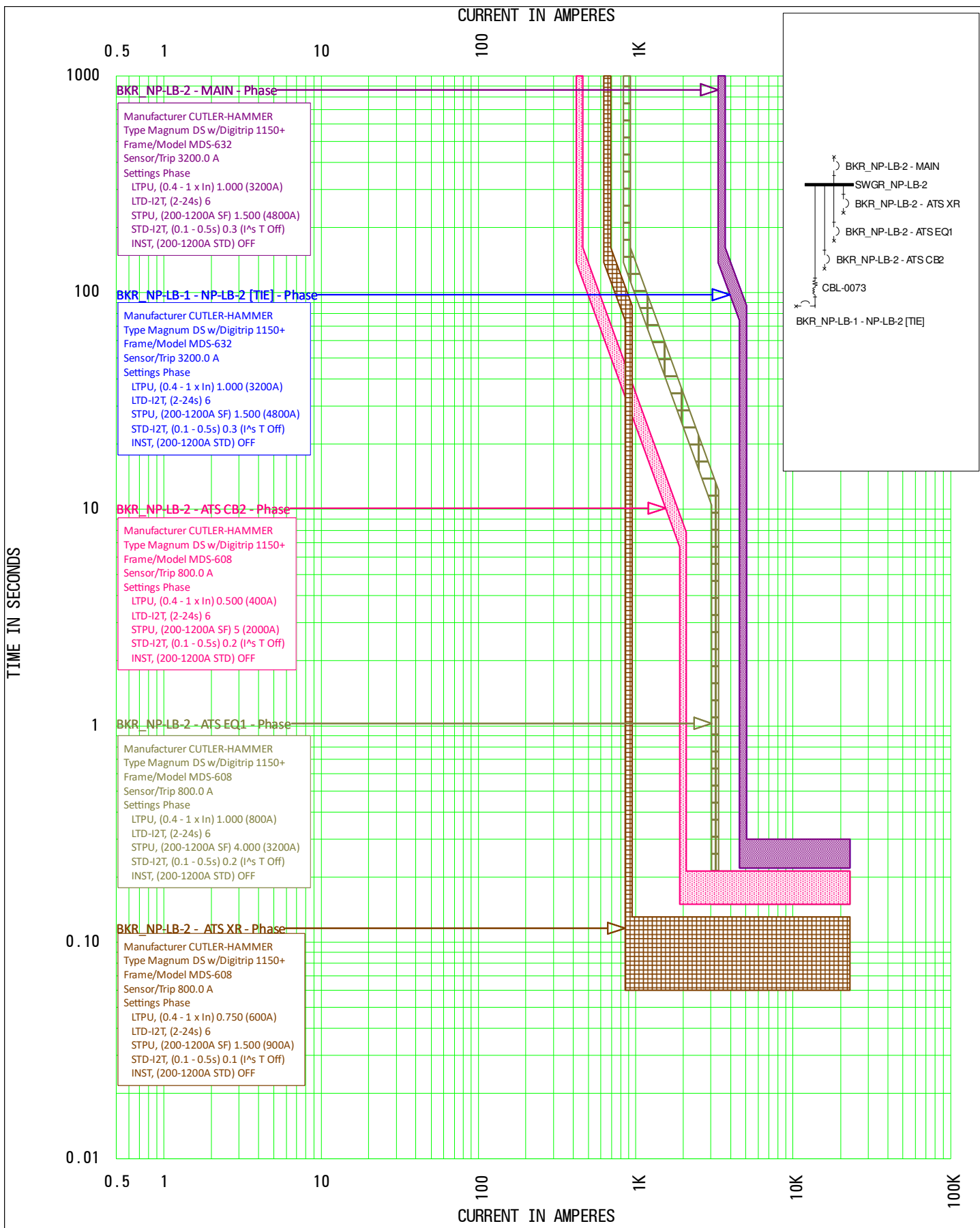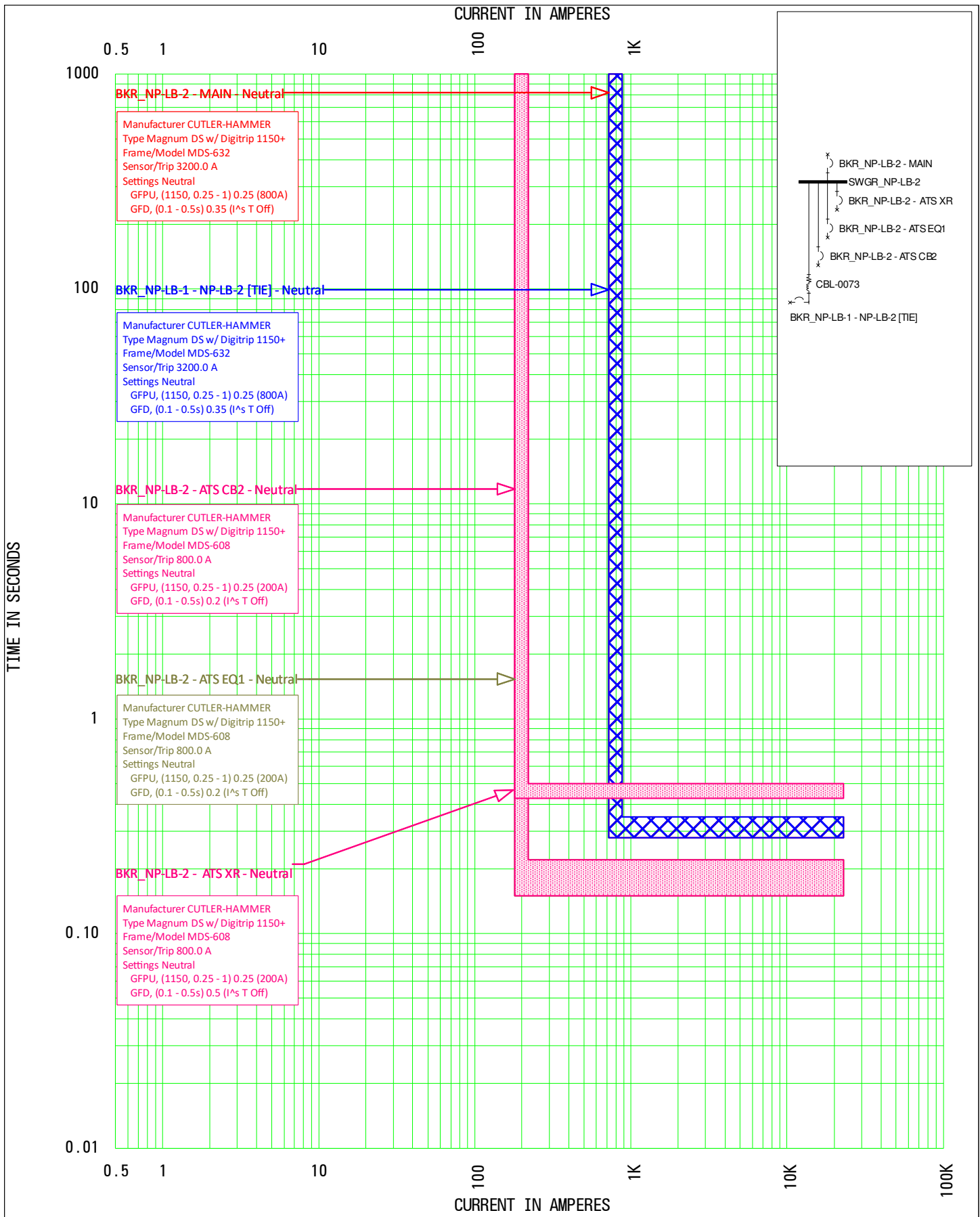Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-2H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-2H - NP-2L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-2H - NP-2L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-2H - NP-2L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram:
- BKR_NP-LP-2 - NP-2H
- CBL-0112
- PNL_NP-2H
- BKR_NP-2H - NP-2L2
- BKR_NP-2H - NP-2L3
- BKR_NP-2H - NP-2L1

TCC Name: TCC_069_PNL_NP-2H
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
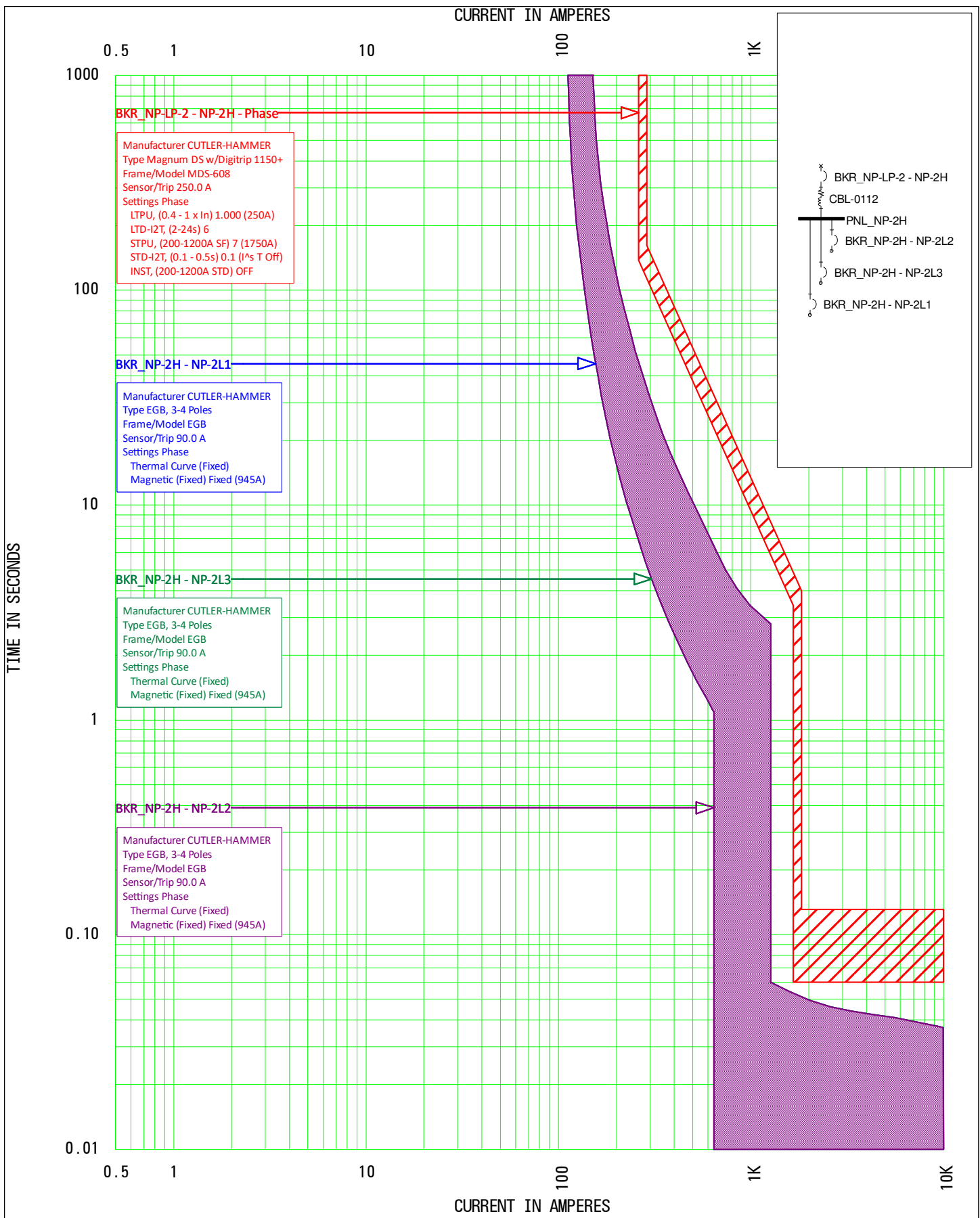Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-3H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (250A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 7 (1750A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-3H - NP-3L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-3H - NP-3L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_NP-3H - NP-3L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-3H
CBL-0113
PNL_NP-3H
BKR_NP-3H - NP-3L3
BKR_NP-3H - NP-3L2
BKR_NP-3H - NP-3L1

TCC Name: TCC_070_PNL_NP-3H
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
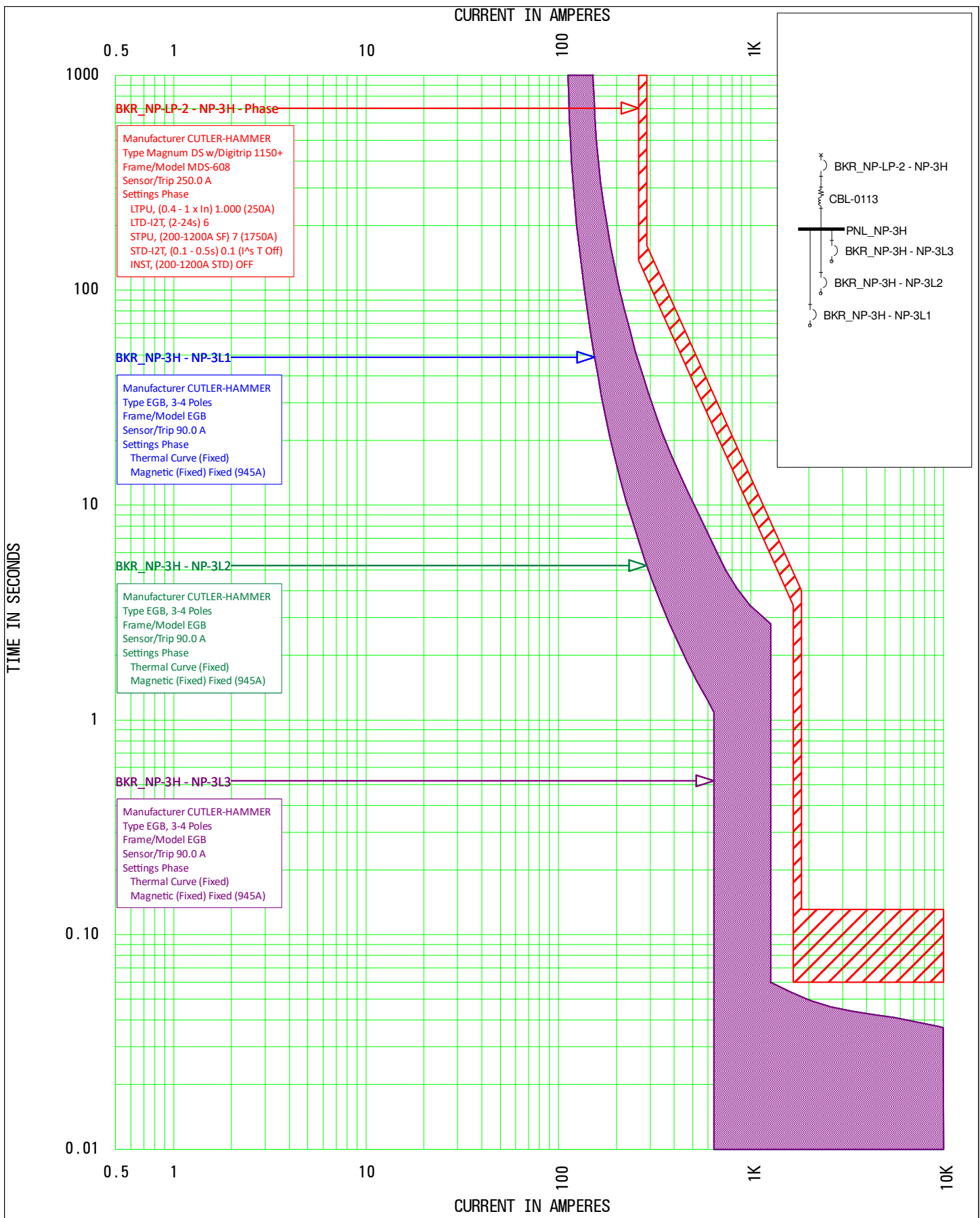Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-5H - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 1.000 (250A)
   LTD-I2T, (2-24s) 6
   STPU, (200-1200A SF) 7 (1750A)
   STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_NP-5H - NP-5L1

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_NP-5H - NP-5L2

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_NP-5H - NP-5L3

Manufacturer CUTLER-HAMMER
Type EGB, 3-4 Poles
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LP-2 - NP-5H
CBL-0114
PNL_NP-5H
BKR_NP-5H - NP-5L3
BKR_NP-5H - NP-5L2
BKR_NP-5H - NP-5L1

TCC Name: TCC_071_PNL_NP-5H
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
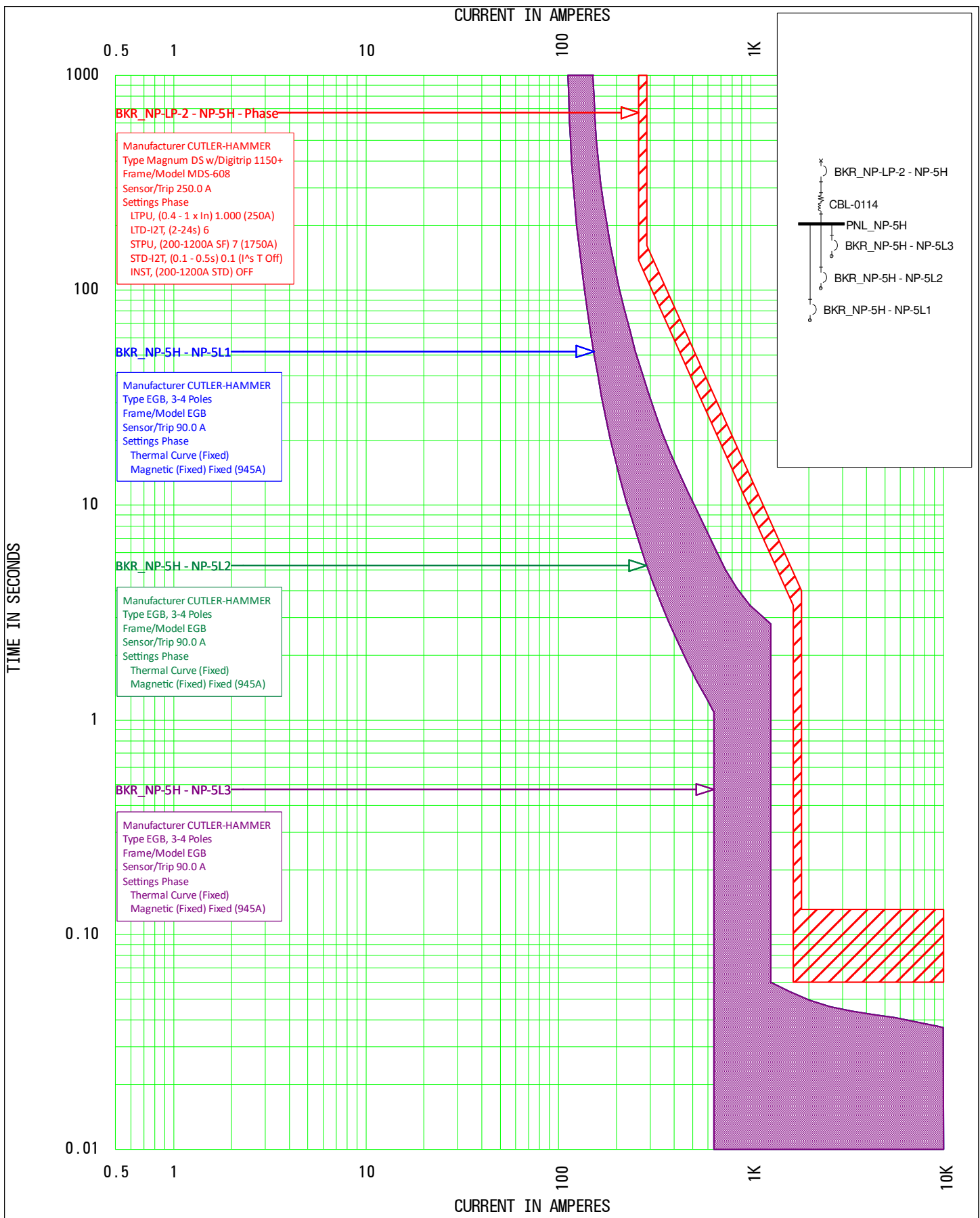Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_SERVICE #3 - PPSS3

TX_PPSS3

RLY_SERVICE #3 - PPSS3

Manufacturer CUTLER-HAMMER
Type Digitrip 3000
Frame/Model DT-3000
Settings Phase
  LDPU 1 (200A)
  I2T 3
  SDPU 6 (1200A)
  SDT 0.2 (sec)
  INST NONE (19999800A)

TX_PPSS3

750.0 kVA
Z=5.6500 %
Pri FLA 104.1 A

BKR_PPSS3 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (1200A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 2.500 (3000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

TX Inrush

TIME IN SECONDS

RLY_SERVICE #3 - PPSS3

BKR_SERVICE #3 - PPSS3

CBL-0220_1

TX_PPSS3

BKR_PPSS3 - MAIN

CURRENT IN AMPERES

TCC Name: TCC_072_TX_PPSS3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_PPSS3 - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (1200A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 2.500 (3000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_PPSS3 - VFD-9 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 3.5
  STPU, (200-1200A SF) 4.000 (2400A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (4800A)

BKR_PPSS3 - VFD-8 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 3.5
  STPU, (200-1200A SF) 4.000 (2400A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 6.00 (4800A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_PPSS3 - MAIN
SWBD_PPSS3
BKR_PPSS3 - VFD-8
BKR_PPSS3 - VFD-9

TCC Name: TCC_073_SWBD_PPSS3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
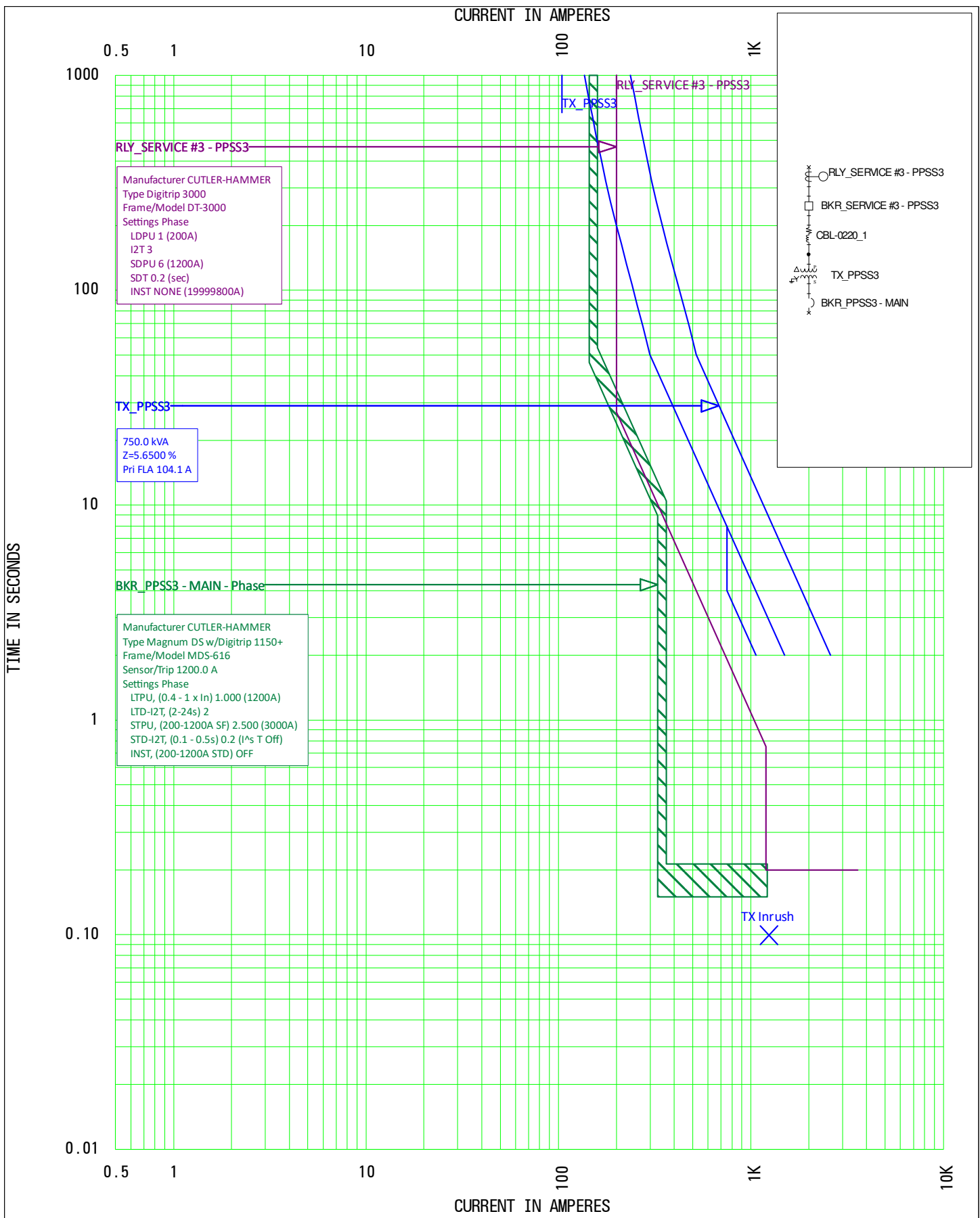Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

GEN_GEN1
RLY_GEN1 - EXISTING E GEAR

GEN_GEN1
CBL-0038
RLY_GEN1 - EXISTING E GEAR
BKR_GEN1 - EXISTING E GEAR

GEN_GEN1

Voltage 4160 V
kVA 1875.0 kVA

RLY_GEN1 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
   Tap 4.0 (240A)
   Time Dial 1.0

CURRENT IN AMPERES

TCC Name: TCC_074_GEN_GEN1
Project #810133
Base Project   Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
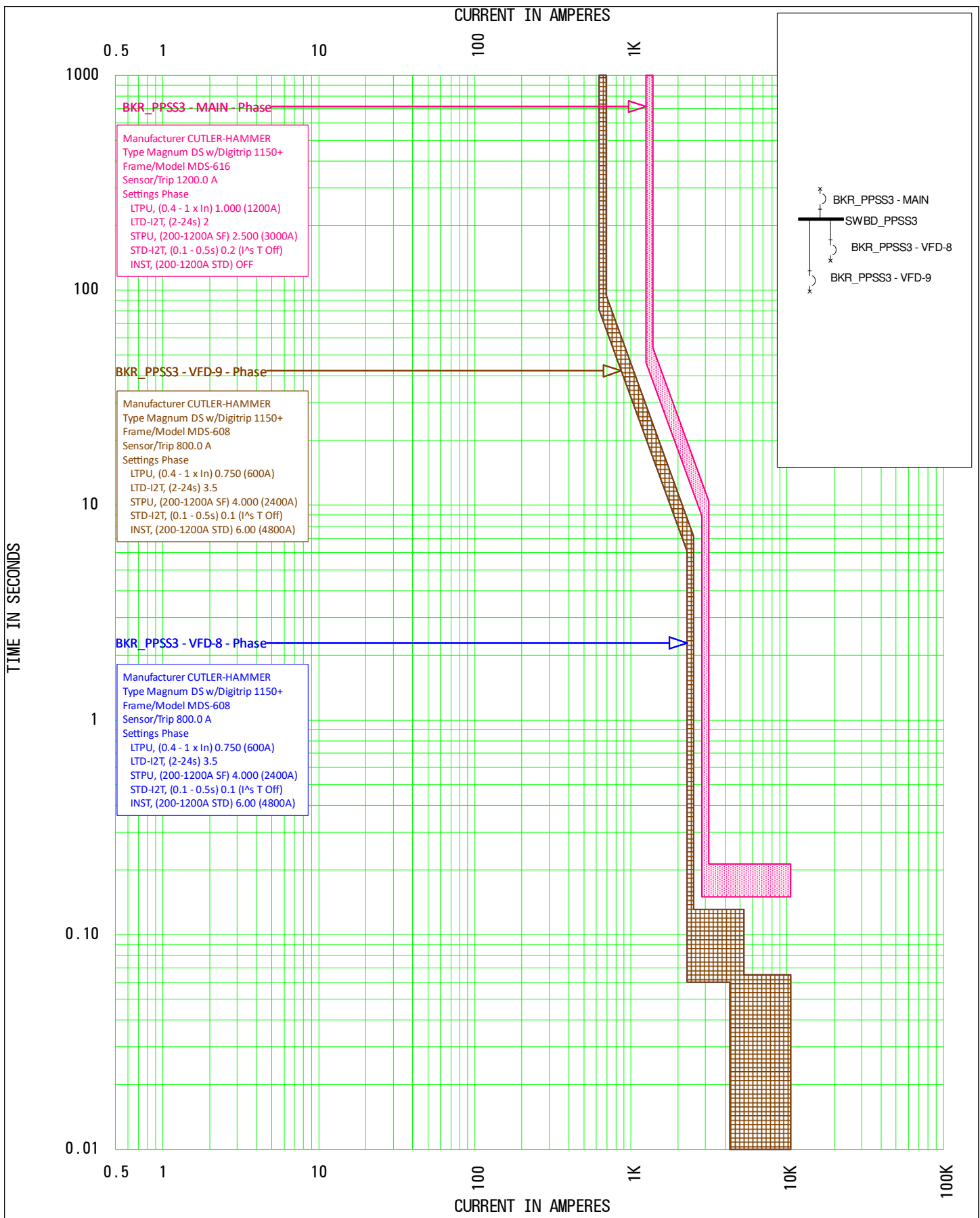Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

GEN_GEN2

RLY_GEN2 - EXISTING E GEAR

GEN_GEN2

CBL-0039

RLY_GEN2 - EXISTING E GEAR

BKR_GEN2 - EXISTING E GEAR

GEN_GEN2

Voltage 4160 V
kVA 1875.0 kVA

RLY_GEN2 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

CURRENT IN AMPERES

TCC Name: TCC_075_GEN_GEN2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

GEN_GEN3

GEN_GEN3

Voltage 4160 V
kVA 1875.0 kVA

Gen SC

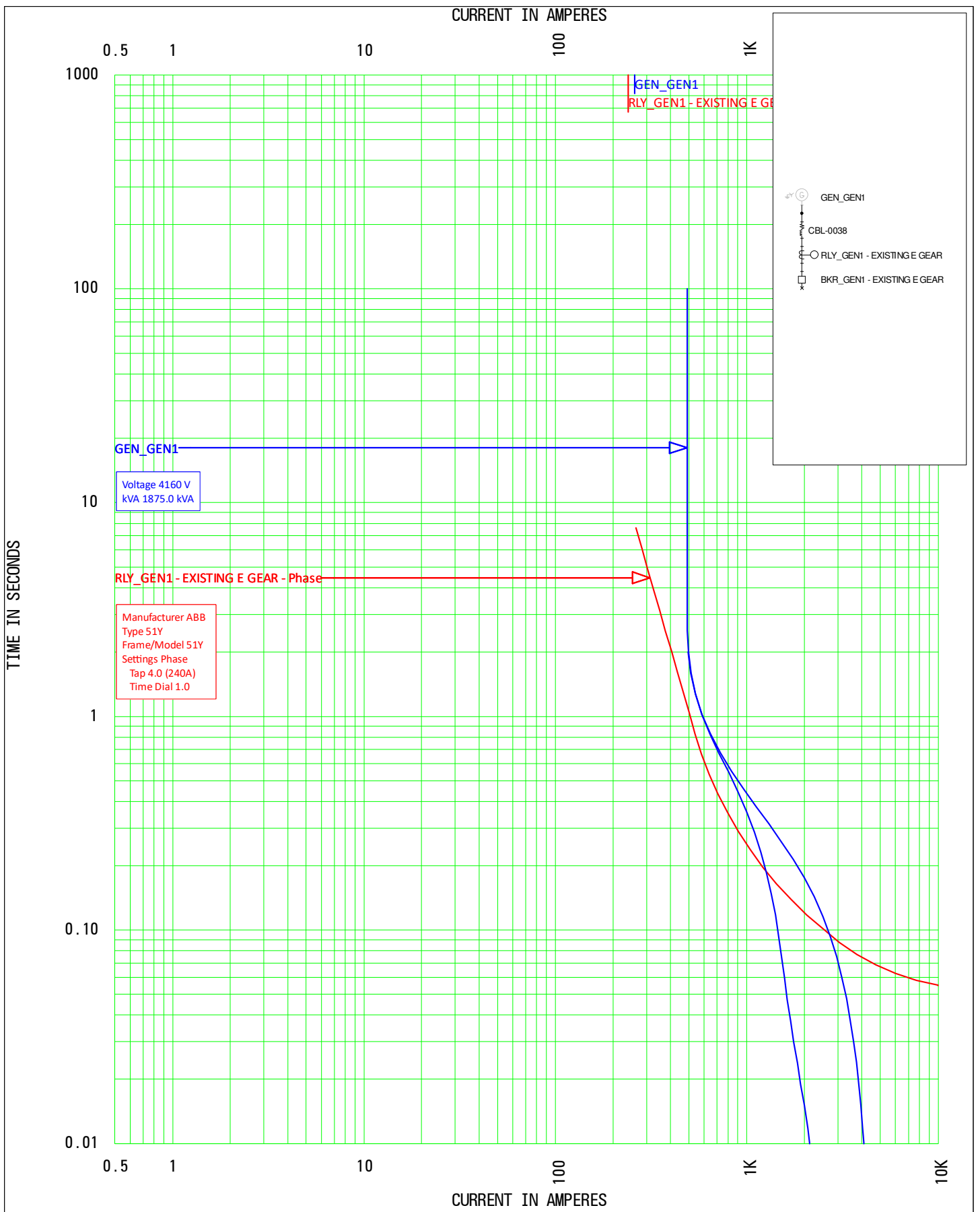GEN_GEN3

CBL-0040

DSC_GEN3

FU_DSC_GEN3

CURRENT IN AMPERES

TCC Name: TCC_076_GEN_GEN3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

GEN_GEN4

GEN_GEN4

Voltage 480 V
kVA 555.6 kVA

Gen SC

BKR_MDPE - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, RMS 520
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
  LTPU (0.4-1.0 x P) 0.7 (840A)
  LTD (2-24 Sec.) 20
  STPU (2-10 x LTPU) 4 (3360A)
  STD (0.1-0.5 Sec.) 0.4 (I^s T On)
  INST (2-14 x P) 6 (7200A)

TIME IN SECONDS

CURRENT IN AMPERES

GEN_GEN4

CBL-0225

BKR_MDPE - MAIN

TCC Name: TCC_077_GEN_GEN4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN1 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN2 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN3 - GEN 3 GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_C-H ALT SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 5.0 (600A)
Time Dial 1.0

RLY_E GEAR - CANCER CENTER [A] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 2.5 (300A)
Time Dial 2.0

RLY_E GEAR - RMT BLDG LD BKR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 3.0 (360A)
Time Dial 1.0

RLY_C-H ALT
RLY_E GEAR - RMT B
RLY_E GEAR - CANCER
RLY_GEN3 - GEN 3 GE
RLY_GEN2 - EXISTING E GE
RLY_GEN1 - EXISTING E GE

RLY_GEN1 - EXISTING E GEAR
BKR_GEN1 - EXISTING E GEAR
RLY_GEN2 - EXISTING E GEAR
BKR_GEN2 - EXISTING E GEAR
RLY_GEN3 - GEN 3 GEAR
BKR_GEN3 - GEN 3 GEAR
SWGR_EXISTING E GEAR
RLY_E GEAR - RMT BLDG LD BKR
BKR_E GEAR - RMT BLDG LD BKR
RLY_E GEAR - CANCER CENTER [A]
BKR_E GEAR - CANCER CENTER [A]
RLY_C-H ALT SWBD[E]
BKR_C-H ALT SWBD[E]

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_078_SWGR_EXISTING E GEAR
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
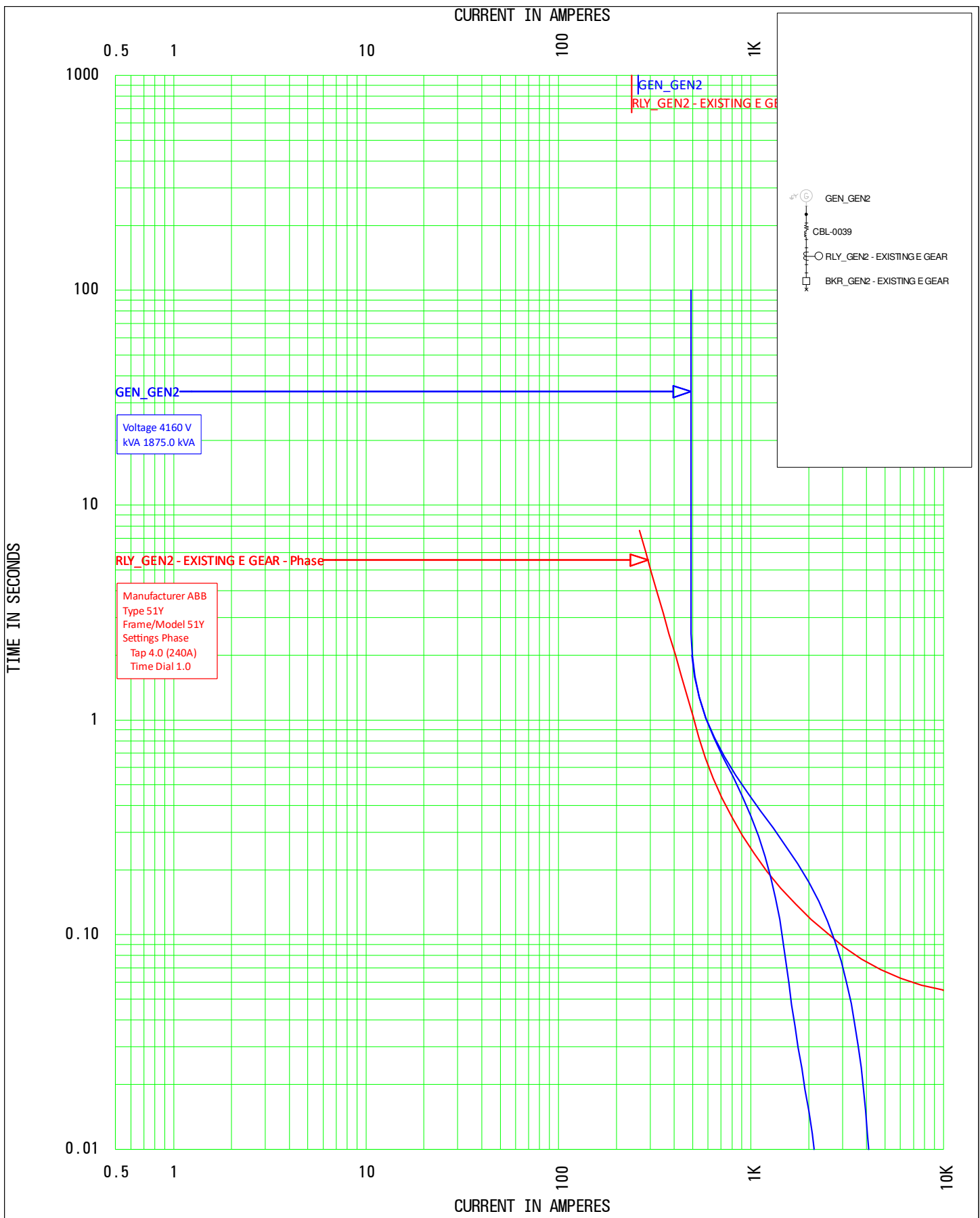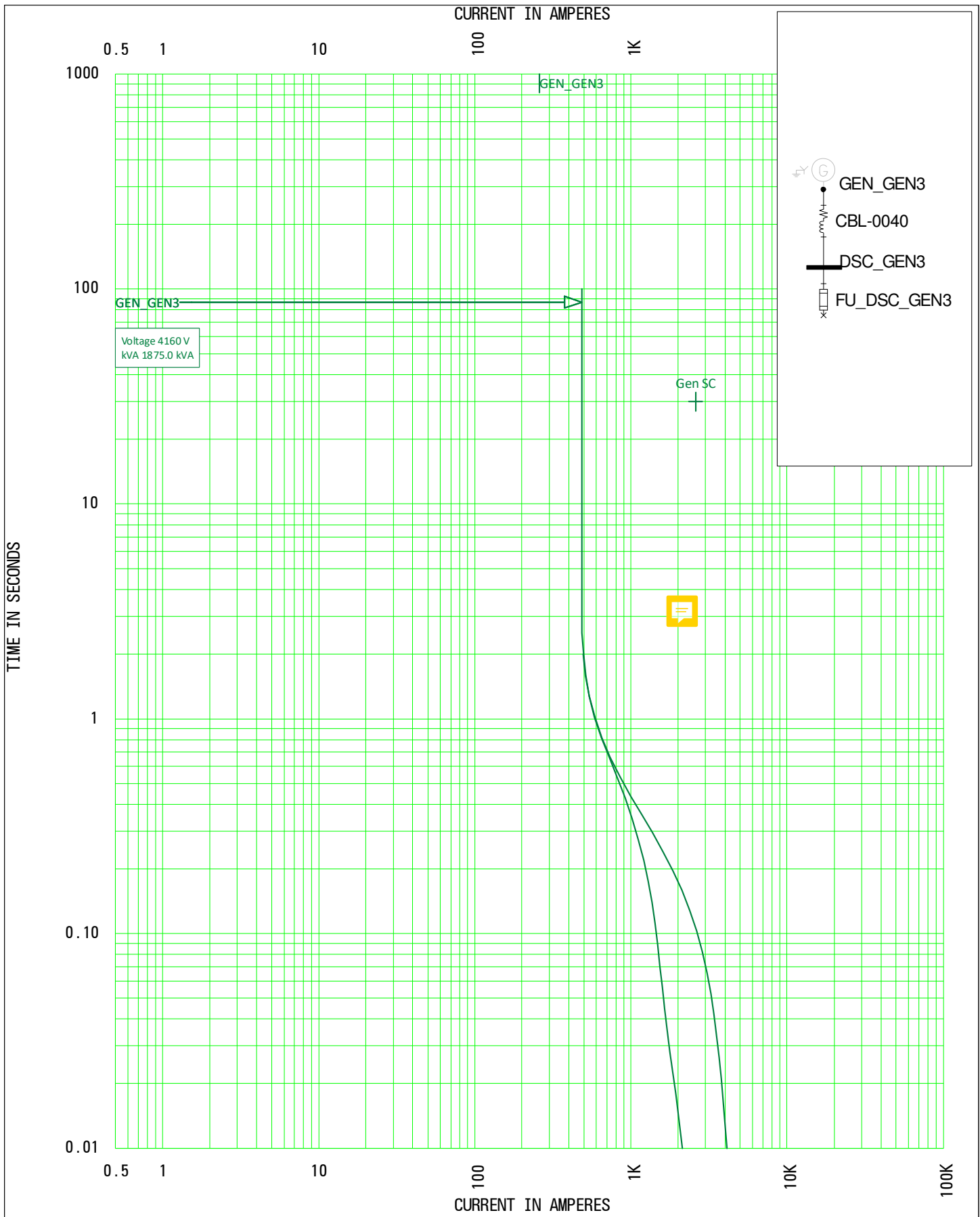Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_GEN1 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN2 - EXISTING E GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_GEN3 - GEN 3 GEAR - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (240A)
Time Dial 1.0

RLY_C-H PRF SWBD[E] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 5.0 (600A)
Time Dial 1.0

RLY_GEN3 GEAR - LOAD BANK - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
Tap 4.0 (480A)
Time Dial 1.0

RLY_C-H PRF
RLY_GEN3 GEAR
RLY_GEN3 - GEN 3 GEAR -
RLY_GEN1 - EXISTING E GE
RLY_GEN2 - EXISTING E GE

TIME IN SECONDS

Legend (single-line diagram)

- RLY_GEN3 - GEN 3 GEAR
- BKR_GEN3 - GEN 3 GEAR
- RLY_GEN1 - EXISTING E GEAR
- BKR_GEN1 - EXISTING E GEAR
- RLY_GEN2 - EXISTING E GEAR
- BKR_GEN2 - EXISTING E GEAR
- SWGR_GEN-3 GEAR
- RLY_GEN3 GEAR - LOAD BANK
- BKR_GEN3 GEAR - LOAD BANK
- RLY_C-H PRF SWBD[E]
- BKR_C-H PRF SWBD[E]

CURRENT IN AMPERES

TCC Name: TCC_079_SWGR_GEN-3 GEAR
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
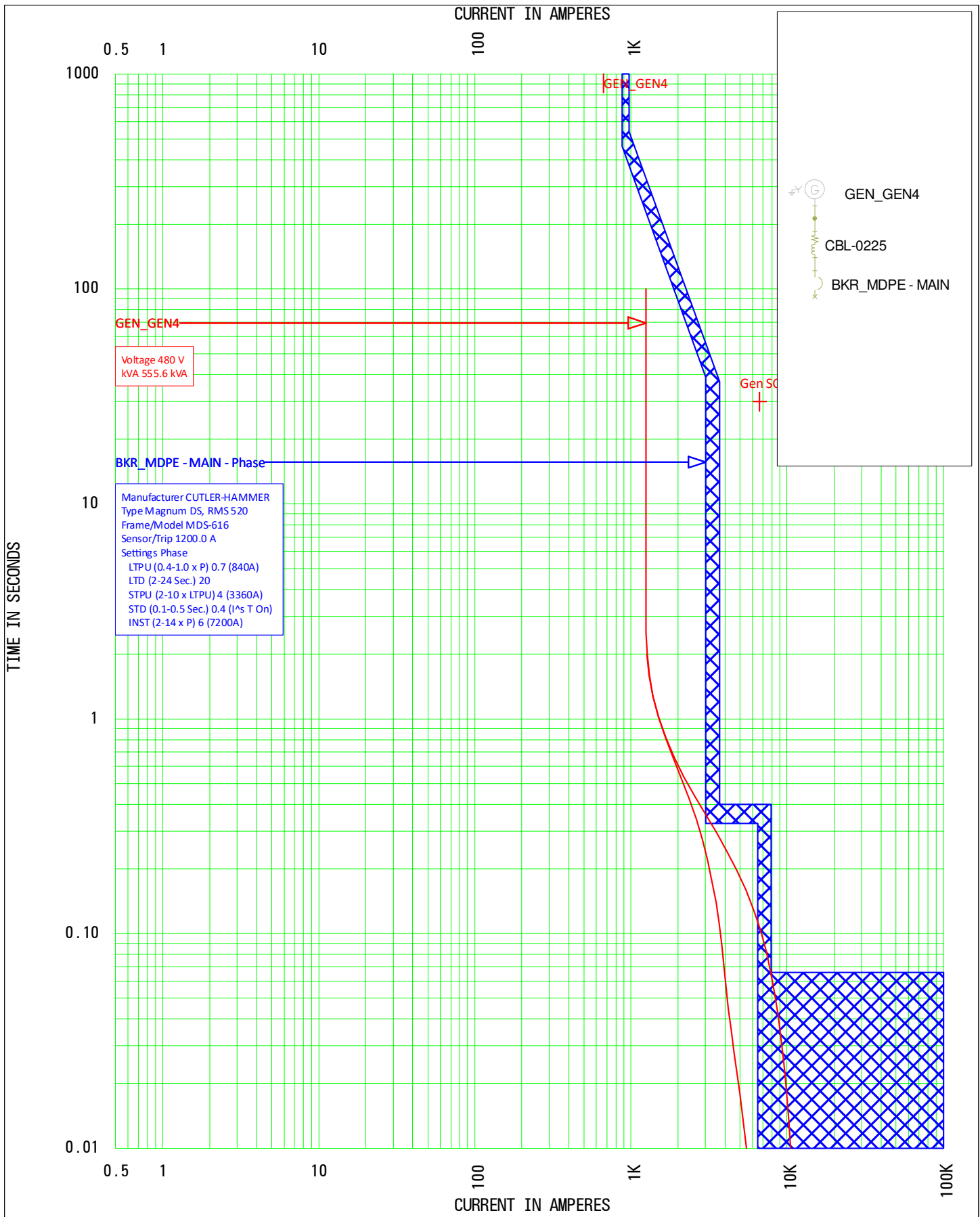Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

RLY_E GEAR - CANCER

TX_U/S-2

RLY_E GEAR - CANCER CENTER [A] - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
　Tap 2.5 (300A)
　Time Dial 2.0

FU_DSC_U/S-2

Manufacturer CUTLER-HAMMER
Type RBA, RDB-200, 2.4-34.5kV E-Rated
Frame/Model RBA, RDB-200, 200E
Sensor/Trip 200.0 A
Settings Phase
　200.0 Amps

TX_U/S-2

750.0 kVA
Z=5.7200 %
Pri FLA 104.1 A

BKR_CANCER CENTER EMERG - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
　LTPU (0.5-1.0 x P) 1 (1200A)
　LTD (1-4) 4
　STPU (1.5-9 x LTPU) 6 (7200A)
　STD (Min-Max) Int (I^s T Off)
　INST (1.5-15 x P) 8 (9600A)

TX Inrush

RLY_E GEAR - CANCER CENTER [A]
BKR_E GEAR - CANCER CENTER [A]
CBL-0036
DSC_U/S-2
FU_DSC_U/S-2
TX_U/S-2
CBL-0219
BKR_CANCER CENTER EMERG - MAIN

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_080_TX_U/S-2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
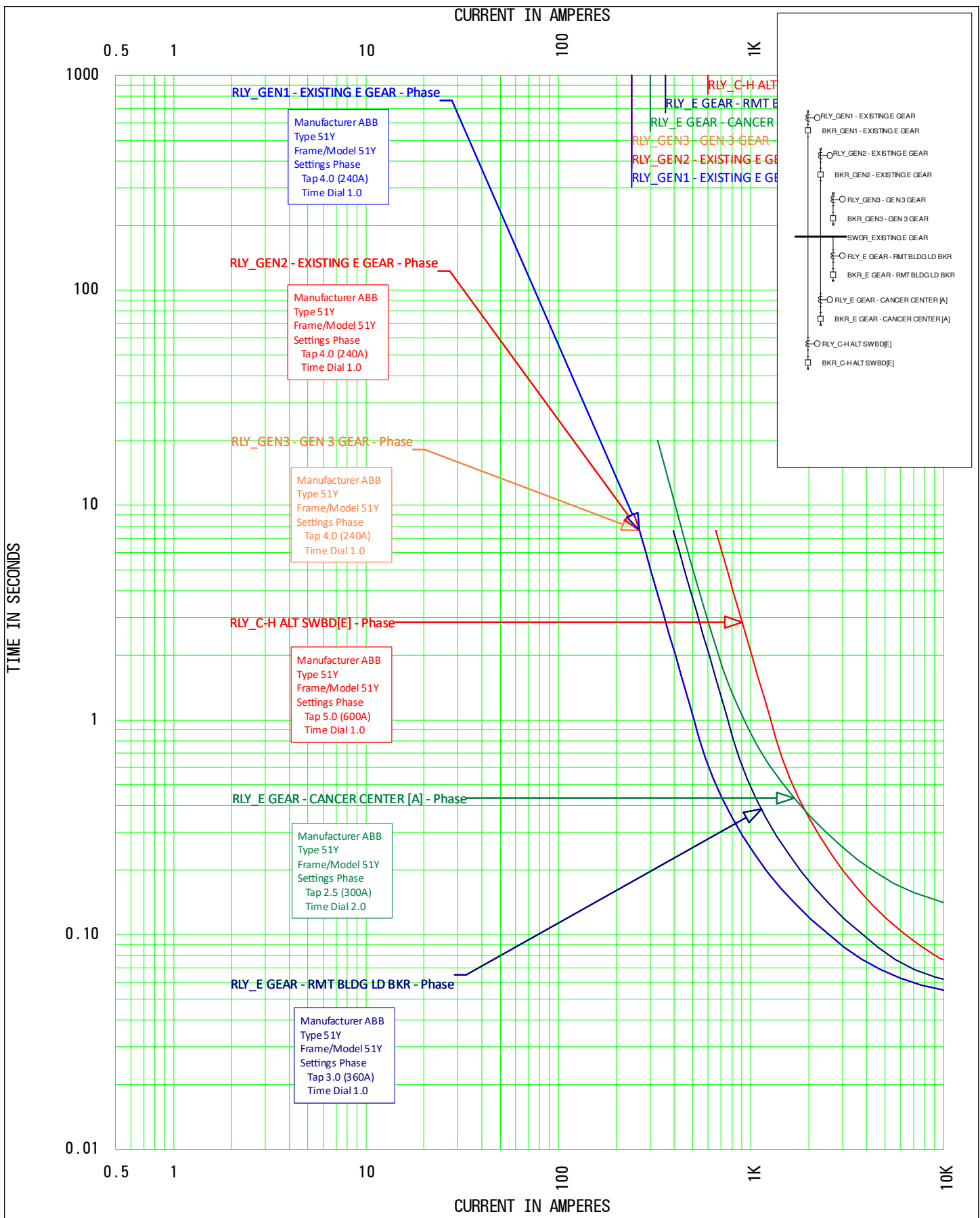Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER EMERG - MAIN

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (1200A)
    LTD (1-4) 4
    STPU (1.5-9 x LTPU) 6 (7200A)
    STD (Min-Max) Int (I^s T Off)
    INST (1.5-15 x P) 8 (9600A)

BKR_CANCER CENTER - TIE

Manufacturer GE
Type TP & THP, MVT Plus/PM
Frame/Model TP
Sensor/Trip 1600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (1200A)
    LTD (1-4) 3
    STPU (1.5-9 x LTPU) 4 (4800A)
    STD (Min-Max) Max (I^s T Off)
    INST (1.5-15 x P) 7 (8400A)

BKR_CANCER CENTER - LS

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 150.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (100A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 4.5 (450A)
    STD (1-4) 4 (I^s T Off)
    INST (1.5-10 x P) 8 (800A)

BKR_CANCER CENTER - CR

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (400A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 4.5 (1800A)
    STD (1-4) 4 (I^s T Off)
    INST (1.5-10 x P) 9 (3600A)

BKR_CANCER CENTER - EQ

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (400A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 4.5 (1800A)
    STD (1-4) 4 (I^s T Off)
    INST (1.5-10 x P) 1.5 (600A)

TIME IN SECONDS

CURRENT IN AMPERES

Open — BKR_CANCER CENTER - TIE
BKR_CANCER CENTER EMERG - MAIN
PNL_CANCER CENTER EMERG
CBL-0168 — BKR_CANCER CENTER - EQ
BKR_CANCER CENTER - CR
BKR_CANCER CENTER - LS

TCC Name: TCC_081_PNL_CANCER CENTER EMERG
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
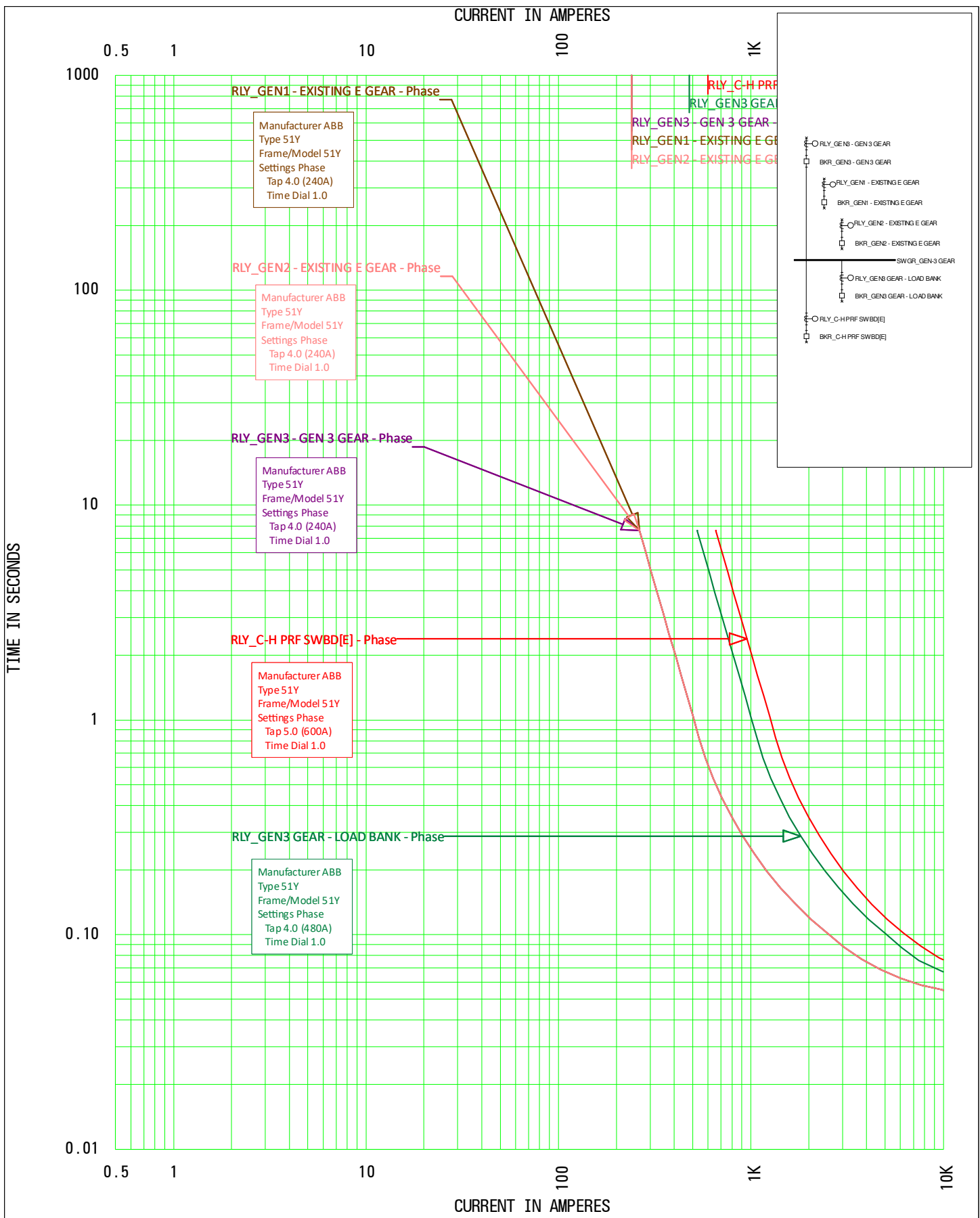Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS LS - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 150.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (100A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 9 (900A)
    STD (1-4) 3 (I^s T Off)
    INST (1.5-10 x P) 8 (800A)

BKR_CANCER CENTER - LS

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 150.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (100A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 4.5 (450A)
    STD (1-4) 4 (I^s T Off)
    INST (1.5-10 x P) 8 (800A)

BKR_DPLS - LLSG1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 60.0 A
Settings Phase
    Fixed

BKR_DPLS - LLSS1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 60.0 A
Settings Phase
    Fixed

BKR_DPLS - LLS21

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 60.0 A
Settings Phase
    Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS LS
CBL-0158
BKR_CANCER CENTER - LS
CBL-0368
ATS_LS [CC]
ATS_LS [CC]
CBL-0183
PNL_DPLS
BKR_DPLS - LLS21
BKR_DPLS - LLSS1
BKR_DPLS - LLSG1

TCC Name: TCC_082_PNL_DPLS
Project #810133
Base Project

Current Scale x 1

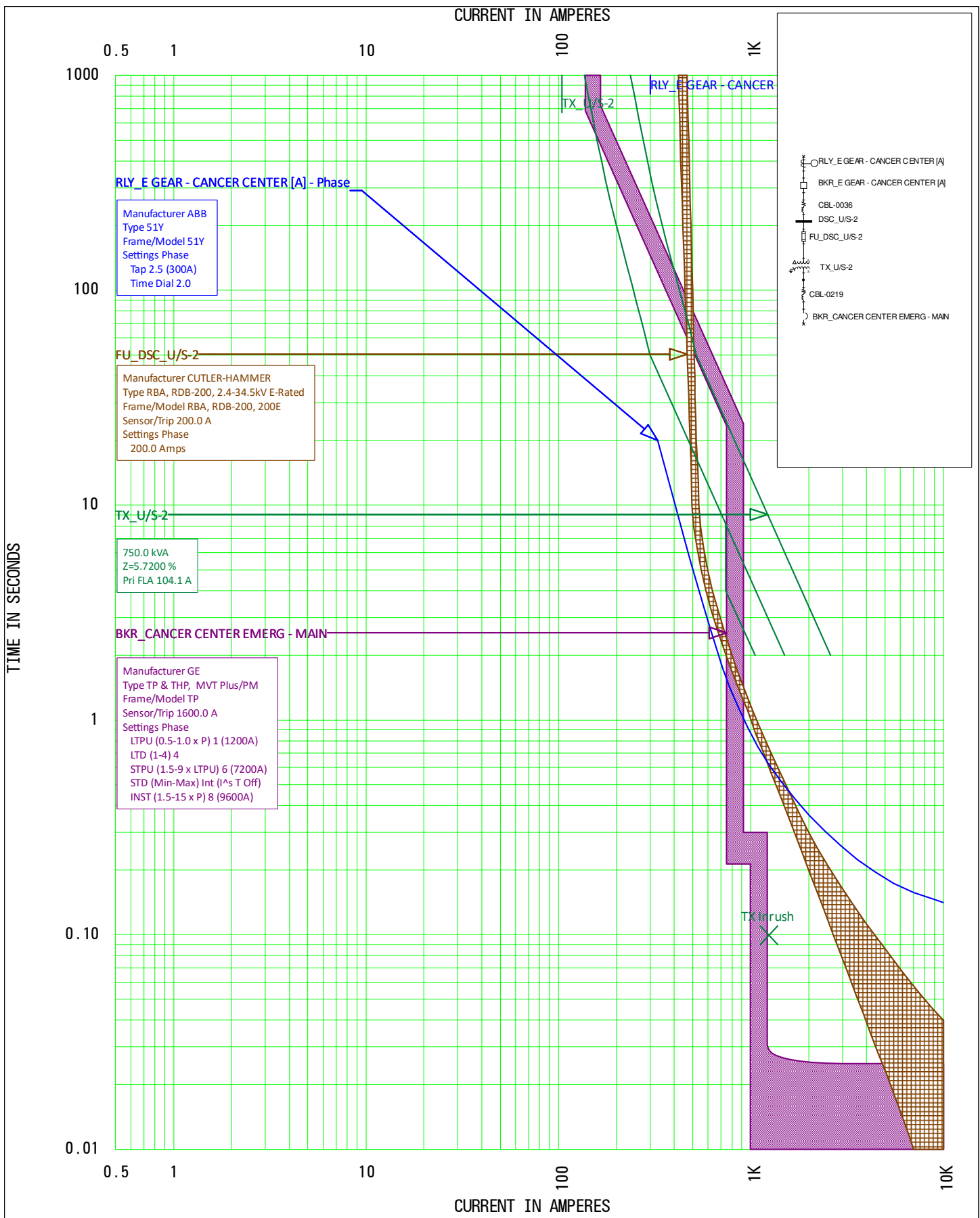Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_CANCER CENTER - ATS CR - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (400A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 9 (3600A)
    STD (1-4) 3 (I^s T Off)
    INST (1.5-10 x P) 10 (4000A)

BKR_CANCER CENTER - CR

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (400A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 4.5 (1800A)
    STD (1-4) 4 (I^s T Off)
    INST (1.5-10 x P) 9 (3600A)

BKR_DPCR - LCR11

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

BKR_DPCR - LCR21

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

BKR_DPCR - LCRG1

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_CANCER CENTER - ATS CR
CBL-0160
BKR_CANCER CENTER - CR
CBL-0369
_ATS_CR [CC]
ATS_CR [CC]
CBL-0174
PNL_DPCR
BKR_DPCR - LCRG1
BKR_DPCR - LCR21
BKR_DPCR - LCR11

TCC Name: TCC_083_PNL_DPCR
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
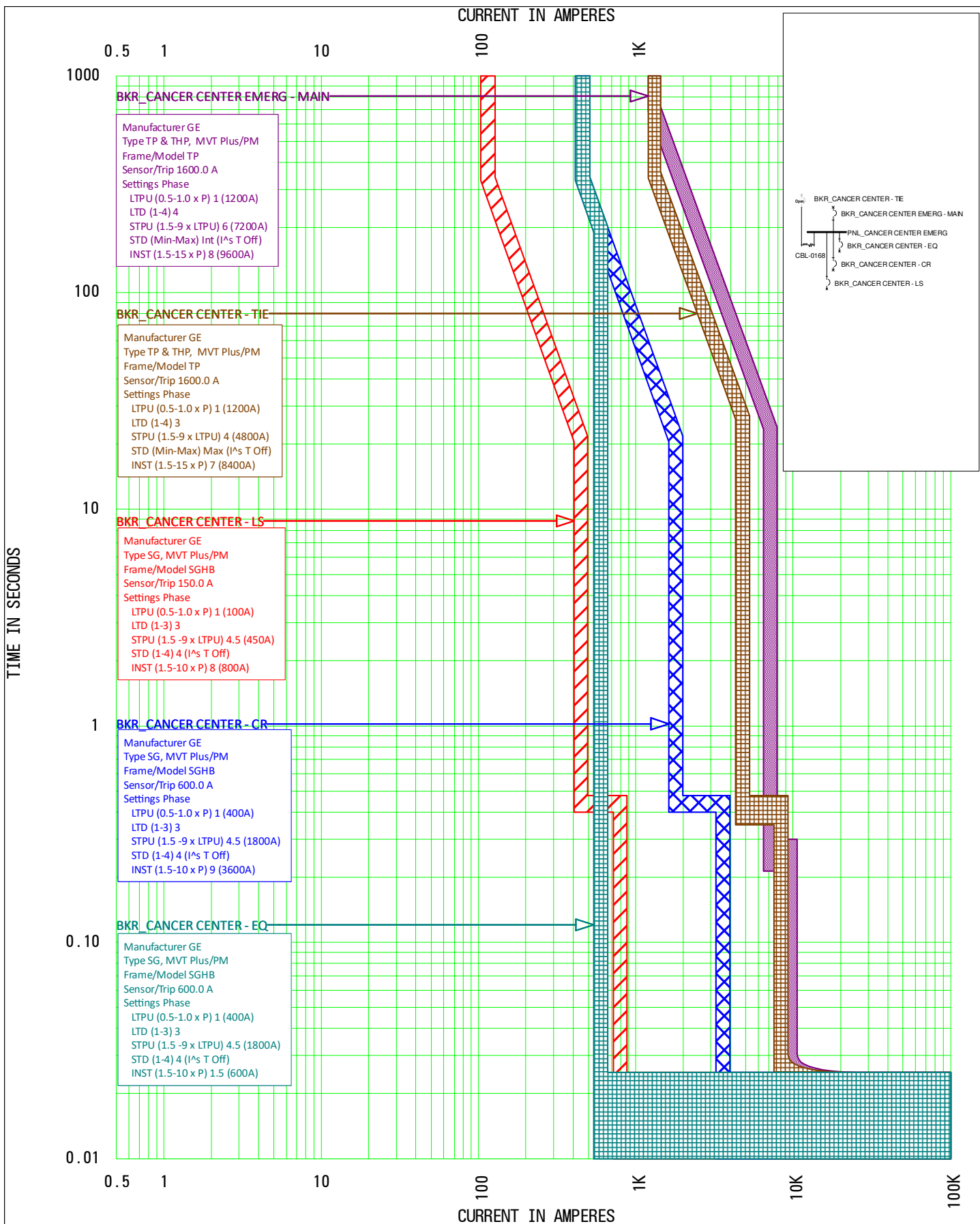Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCR - LCR21

Manufacturer GE
Type SFLA, Spectra RMS
Frame/Model SFLA
Sensor/Trip 200.0 A
Settings Phase
    MAX

BKR_LCR21 - MAIN

Manufacturer GE
Type TFJ
Frame/Model TFJ
Sensor/Trip 200.0 A
Settings Phase
    Thermal Curve (Fixed)
    INST (4.5-10 x Trip) HI (2000A)

BKR_LCR21 - PCR21

Manufacturer GE
Type TEY, 2 & 3-Pole
Frame/Model TEY
Sensor/Trip 70.0 A
Settings Phase
    Fixed

BKR_LCR21 - PET/CT

Manufacturer GE
Type TEY, 2 & 3-Pole
Frame/Model TEY
Sensor/Trip 80.0 A
Settings Phase
    Fixed

TIME IN SECONDS

CURRENT IN AMPERES

Legend:
- BKR_DPCR - LCR21
- CBL-0176
- BKR_LCR21 - MAIN
- PNL_LCR21
- BKR_LCR21 - PET/CT
- BKR_LCR21 - PCR21

TCC Name: TCC_084_PNL_LCR21
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
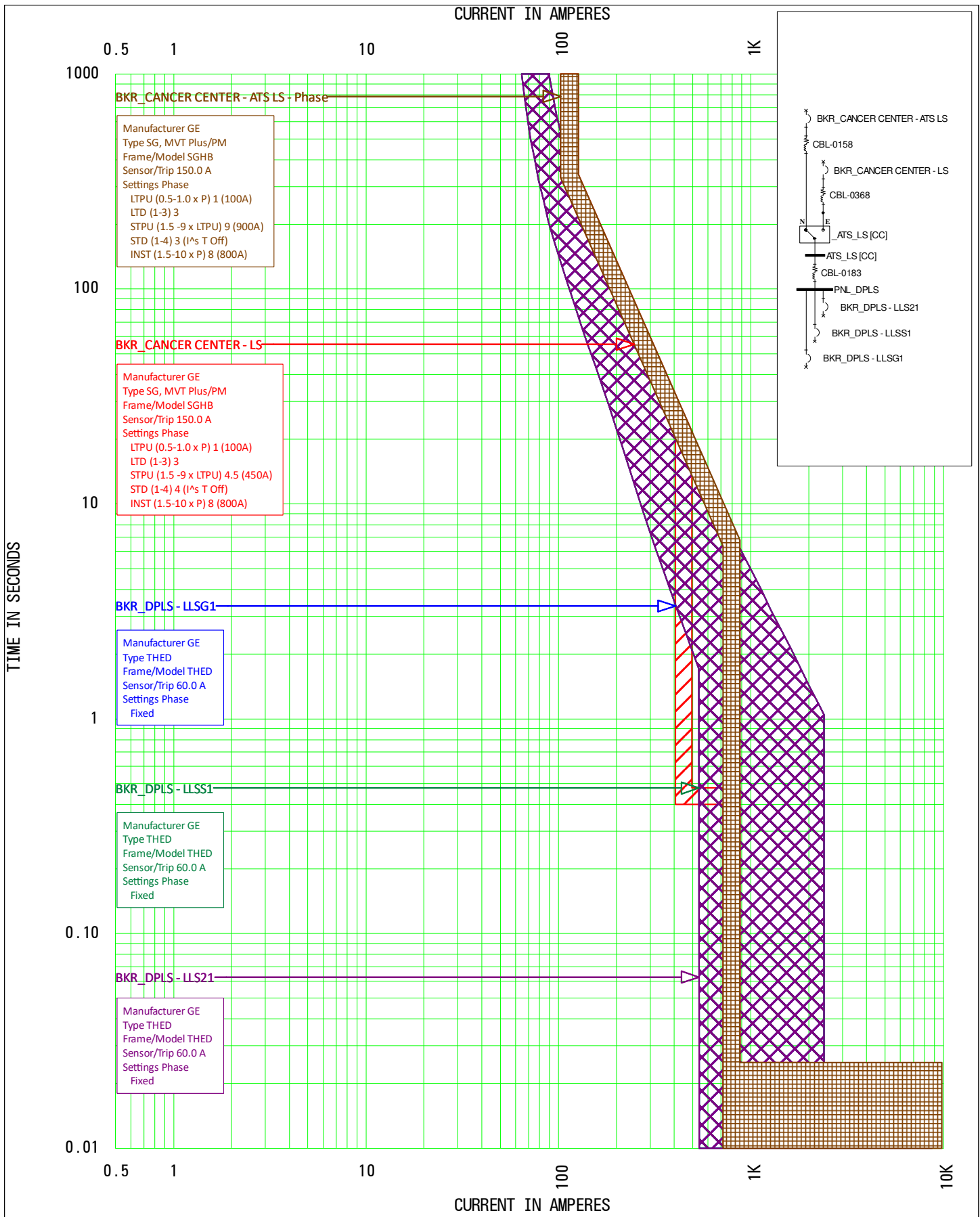Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_CANCER CENTER - ATS EQ - Phase

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (400A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 9 (3600A)
    STD (1-4) 3 (I^s T Off)
    INST (1.5-10 x P) 4 (1600A)

BKR_CANCER CENTER - EQ

Manufacturer GE
Type SG, MVT Plus/PM
Frame/Model SGHB
Sensor/Trip 600.0 A
Settings Phase
    LTPU (0.5-1.0 x P) 1 (400A)
    LTD (1-3) 3
    STPU (1.5 -9 x LTPU) 4.5 (1800A)
    STD (1-4) 4 (I^s T Off)
    INST (1.5-10 x P) 1.5 (600A)

BKR_DPEQ - ELEV1

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 125.0 A
Settings Phase
    MAX

BKR_DPEQ - ELEV2

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
    MAX

BKR_DPEQ - PEQG1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 30.0 A
Settings Phase
    Fixed

BKR_DPEQ - EQPH

Manufacturer GE
Type SFHA, Spectra RMS
Frame/Model SFHA
Sensor/Trip 225.0 A
Settings Phase
    MAX

BKR_DPEQ - CP1

Manufacturer GE
Type THED
Frame/Model THED
Sensor/Trip 15.0 A
Settings Phase
    Fixed

BKR_CANCER CENTER - ATS EQ
CBL-0159
BKR_CANCER CENTER - EQ
CBL-0370
ATS_EQ [CC]
ATS_EQ [CC]
CBL-0178
PNL_DPEQ
BKR_DPEQ - PEQG1
BKR_DPEQ - CP1
BKR_DPEQ - EQPH
BKR_DPEQ - ELEV2
BKR_DPEQ - ELEV1

CURRENT IN AMPERES

TCC Name: TCC_085_PNL_DPEQ
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED
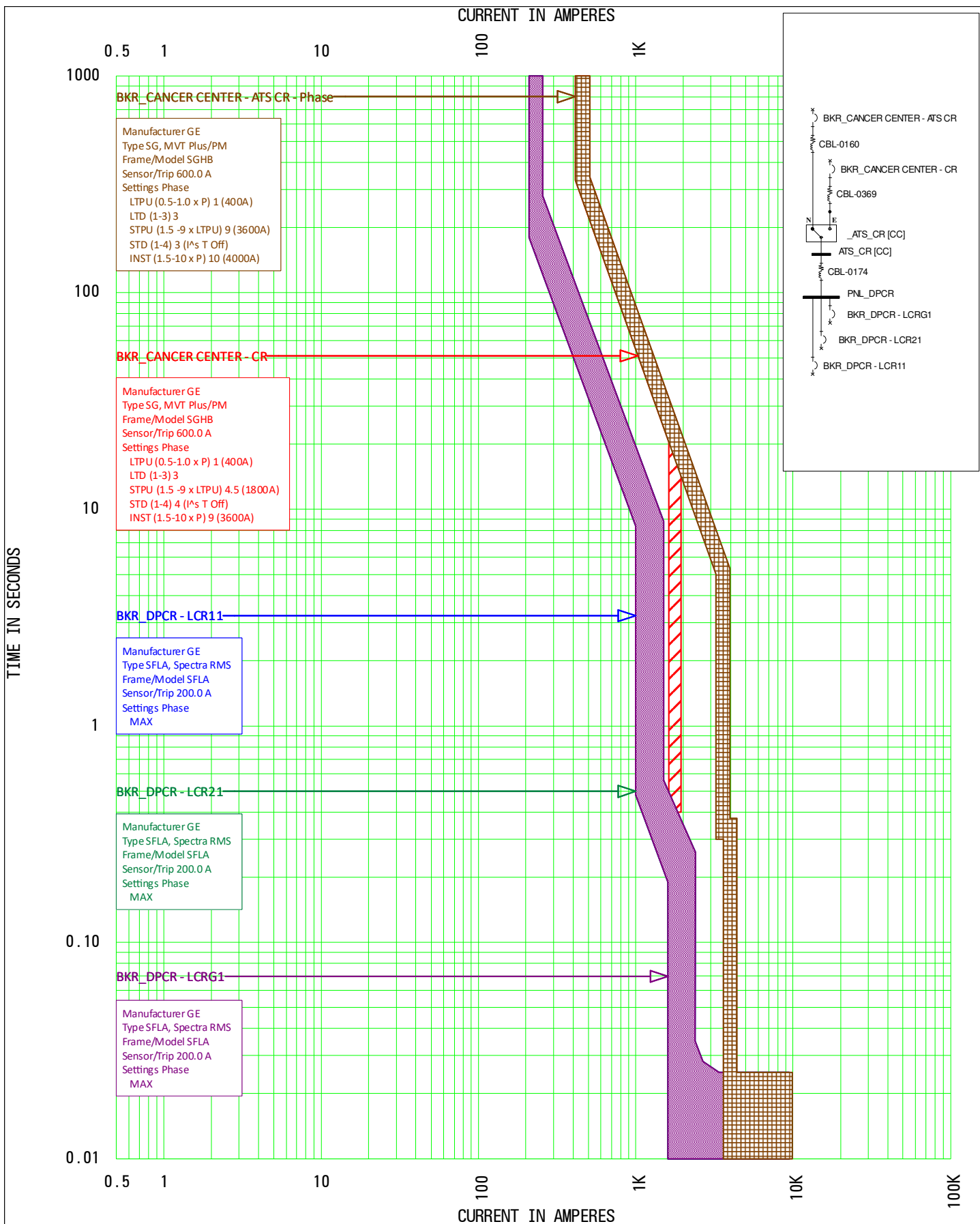
CURRENT IN AMPERES

RLY_GEN3 GEAR - NEW "E" A SWBD - Phase
TX_EMERG-A [ET-1]

RLY_GEN3 GEAR - NEW "E" A SWBD - Phase
Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 1.0

TX_EMERG-A [ET-1]
1500.0 kVA
Z=5.5100 %
Pri FLA 208.2 A

BKR_XSB EMERG-A - Phase
Manufacturer ABB
Type EMAX, PR122
Frame/Model E3S-A
Sensor/Trip 2000.0 A
Settings Phase
  LTPU 1 (2000A)
  LTD 144
  STPU 2.27 (4540A)
  STD-I2T 0.05 (I^s T Off)

BKR_EMERG-A - MAIN - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

T2Inrush

RLY_GEN3 GEAR - NEW "E" ASWBD
BKR_GEN3 GEAR - NEW "E" ASWBD
CBL-0030
TX_EMERG-A[ET-1]
BKR_XSB EMERG-A
CBL-0031
BKR_EMERG-A- MAN

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_086_TX_EMERG-A [ET-1]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
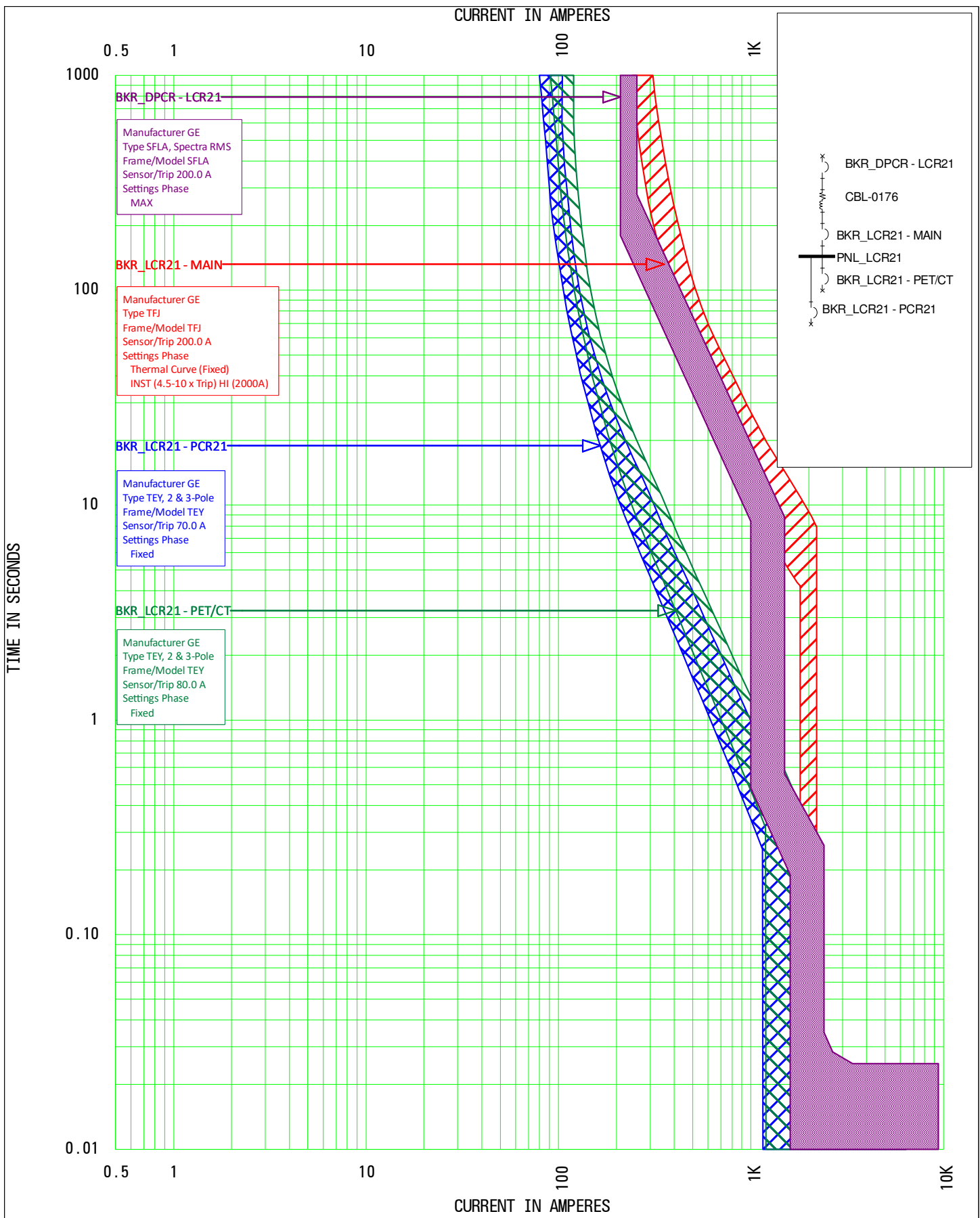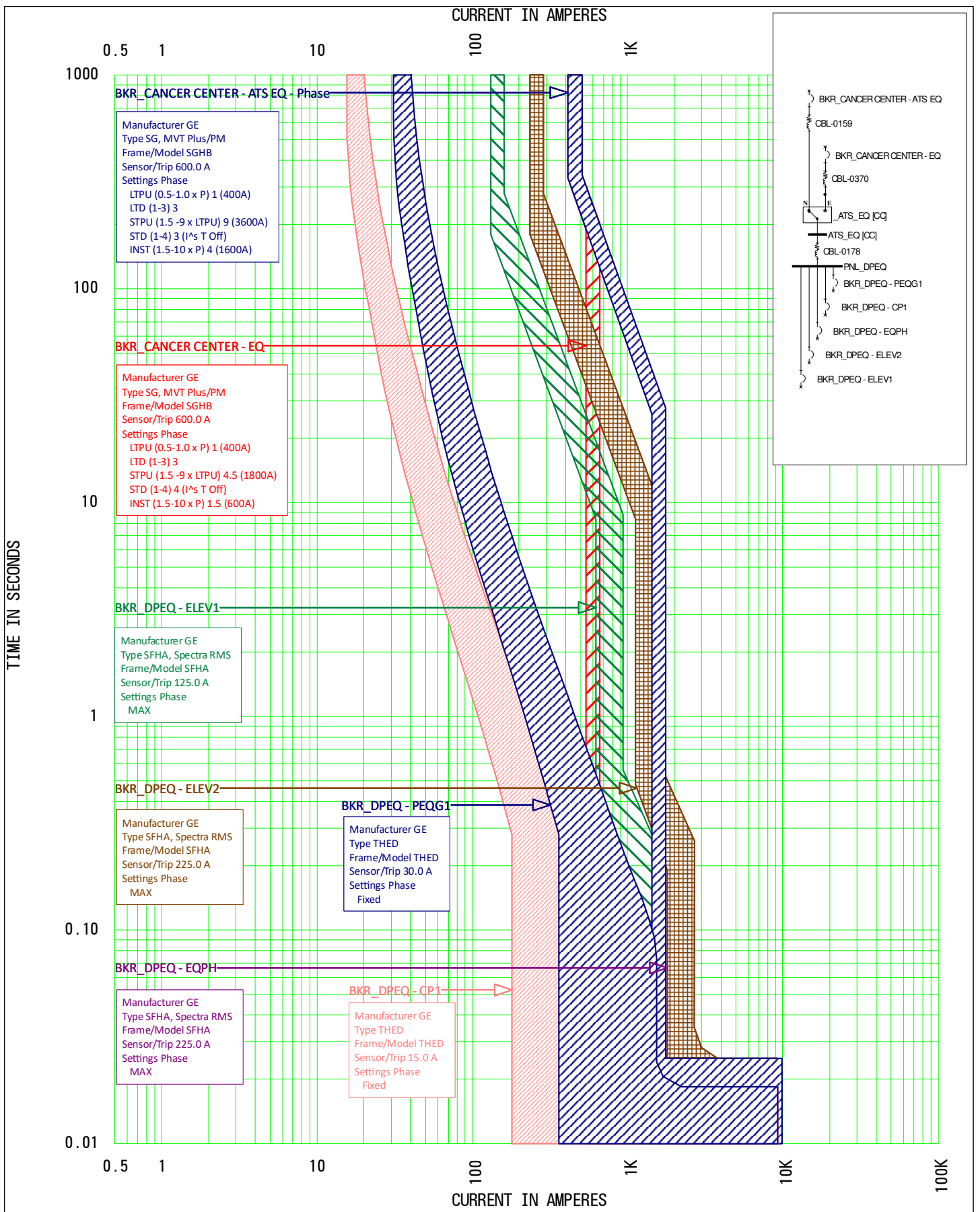Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-A - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

BKR_EMERG-TIE A-B - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

BKR_EMERG A - BACKUP POWER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (1000A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_EMERG A - EQ1 ATS [DAHOD] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 11.5
  STPU, (200-1200A SF) 3.000 (2400A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG A - DPE - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (4000A)

TIME IN SECONDS

CURRENT IN AMPERES

- BKR_EMERG-A - MAIN
- SWGR_EMERG-A [SW#1]
- BKR_EMERG-TIE A-B
- BKR_EMERG A - DPE
- BKR_EMERG A - EQ1 ATS [DAHOD]
- BKR_EMERG A - BACKUP POWER

TCC Name: TCC_087a_SWGR_EMERG-A [SW#1]_ph
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
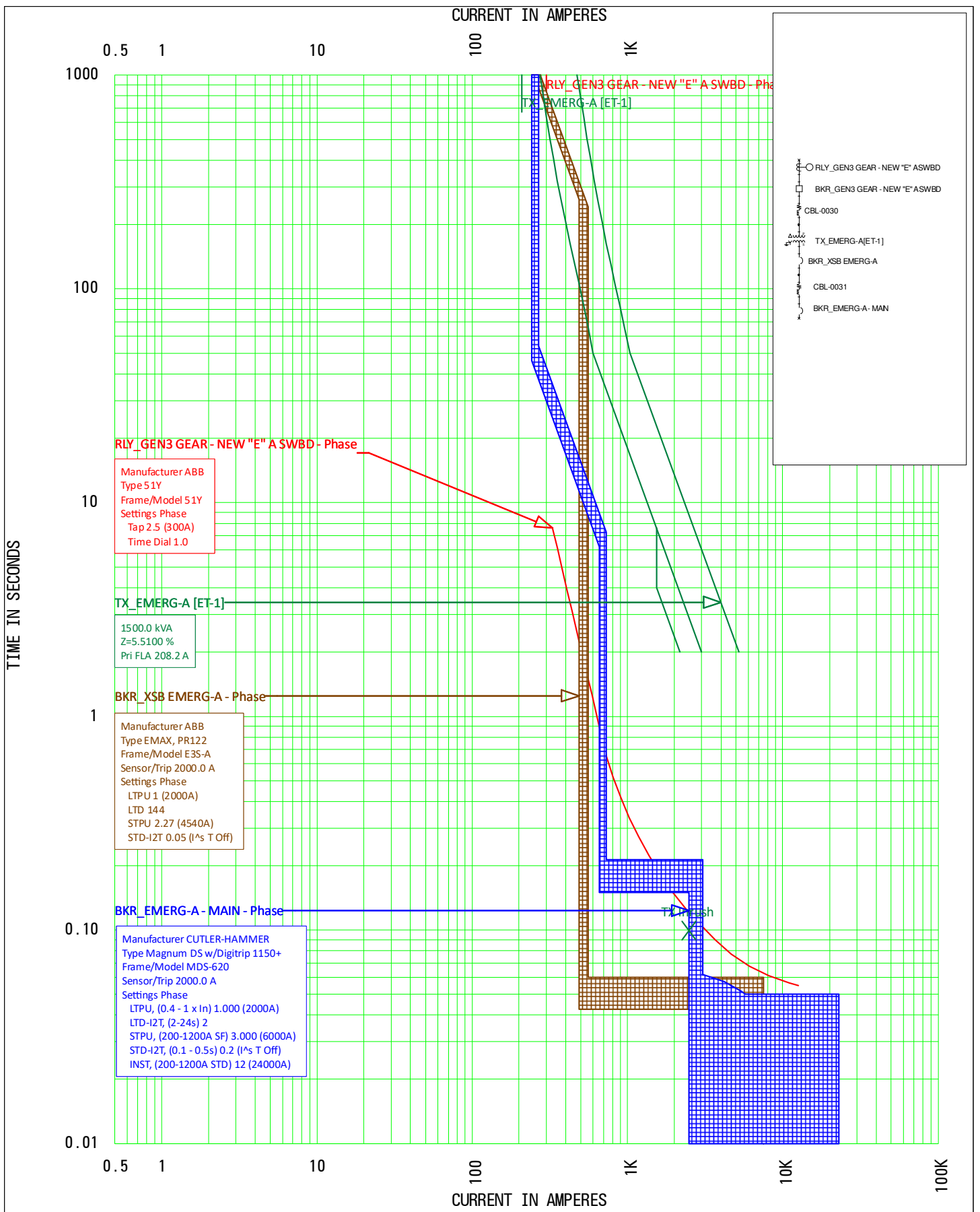Main Campus

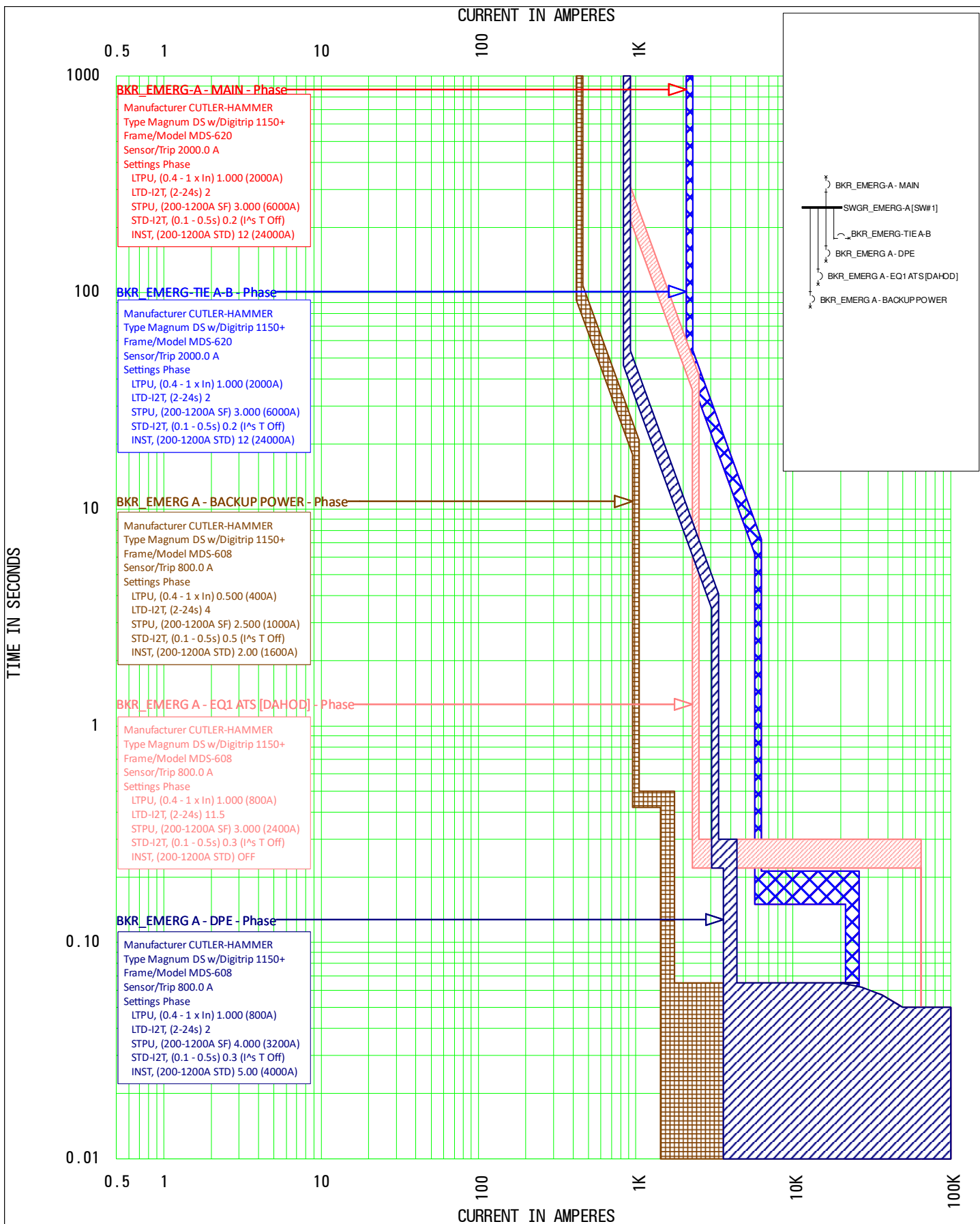**CE POWER**
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-A - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG-TIE A-B - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG A - BACKUP POWER - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150i, 0.1 - 1) 0.4 (320A)
  GFD, (0.1 - 0.5s) 0.5 (I^s T Off)

BKR_EMERG A - EQ1 ATS [DAHOD] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.25 (200A)

BKR_EMERG A - DPE - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
  GFPU, (1150, 0.25 - 1) 0.4 (320A)
  GFD, (0.1 - 0.5s) 0.3 (I^s T Off)

TIME IN SECONDS

BKR_EMERG-A - MAIN
SWGR_EMERG-A [SW#1]
BKR_EMERG-TIE A-B
BKR_EMERG A - DPE
BKR_EMERG A - EQ1 ATS [DAHOD]
BKR_EMERG A - BACKUP POWER

CURRENT IN AMPERES

CURRENT IN AMPERES

BKR_EMERG A - BACKUP POWER - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.500 (400A)
 LTD-I2T, (2-24s) 4
 STPU, (200-1200A SF) 2.500 (1000A)
 STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
 INST, (200-1200A STD) 2.00 (1600A)

TX_BACKUP MED SURGE TX#1

150.0 kVA
Z=6.0000 %
Pri FLA 180.4 A

FU_DSC_BACKUP MED SURGE DSC#1

Manufacturer LITTELFUSE
Type FLNR, 250V Class RK5
Frame/Model FLNR
Sensor/Trip 350.0 A

BKR_DSC_MED SURGE [E]

Manufacturer GE
Type TJJ
Frame/Model TJJ
Sensor/Trip 350.0 A
Settings Phase
 Thermal Curve (Fixed)
 INST (3-10 x Trip) HI (3500A)

TX_BACKUP MED SURGE TX#1

TX Inrush

BKR_EMERG A - BACKUP POWER
CBL-0196
TX_BACKUP MED SURGE TX#1
CBL-0396
DSC_BACKUP MED SURGE DSC#1
FU_DSC_BACKUP MED SURGE DSC#1
CBL-0397
BKR_DSC_MED SURGE [E]

TIME IN SECONDS

CURRENT IN AMPERES

TCC Name: TCC_089_TX_BACKUP MED SURGE TX#1
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
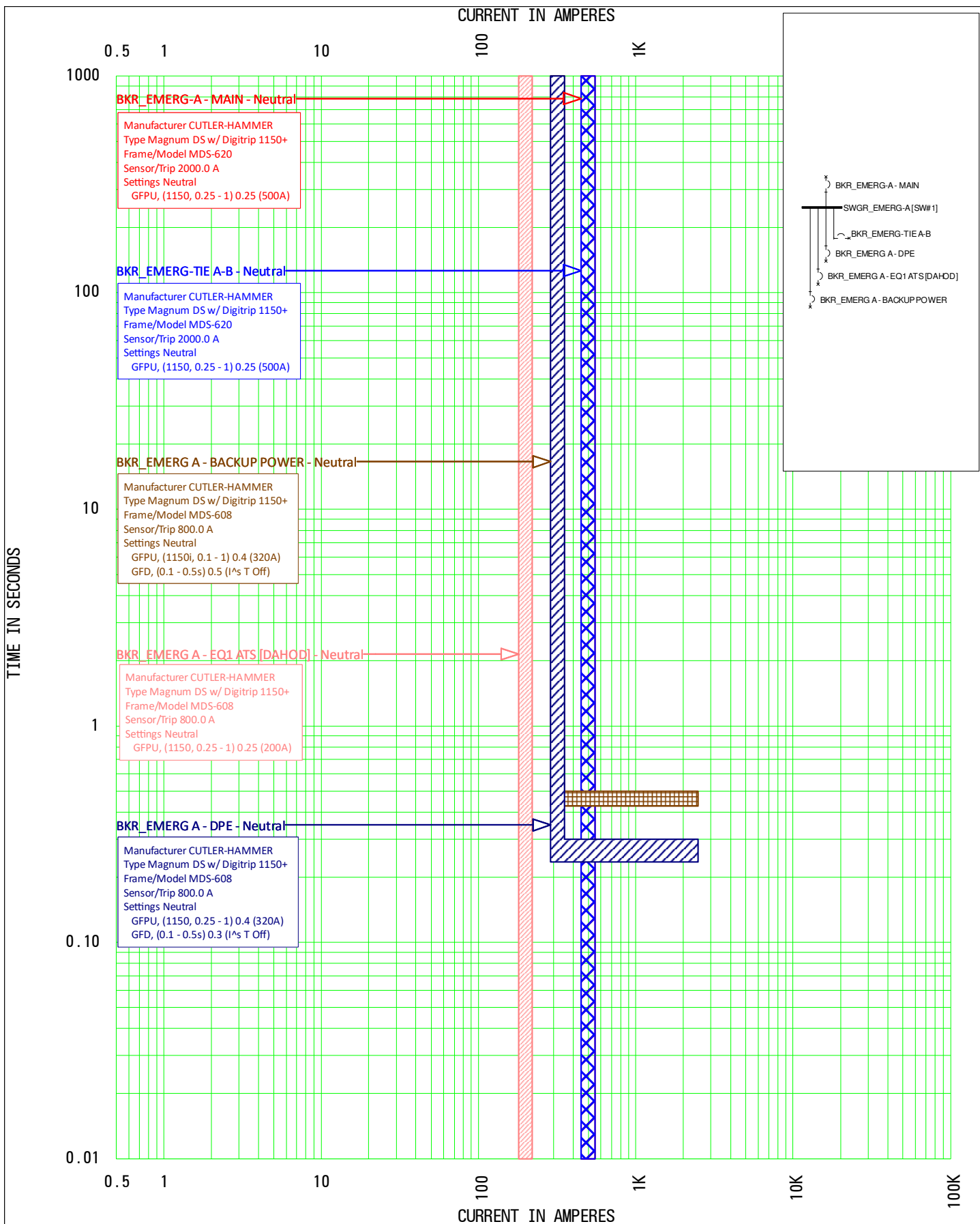Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG A - EQ1 ATS [DAHOD] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 11.5
  STPU, (200-1200A SF) 3.000 (2400A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS EQ1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 4.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPEEQ1 - EQSL

Manufacturer CUTLER-HAMMER
Type KD, RMS 310
Frame/Model KD
Sensor/Trip 250.0 A
Settings Phase
  LTPU (1.0 x P) Fixed (150A)
  LTD (Fixed) Fixed
  STPU (2-8 x P) 8 (1200A)
  STD (Inst-300 ms) 200 ms (I^s T Off)
  INST (4000A) Fixed (4000A)

BKR_DPEEQ1 - EQBH1

Manufacturer CUTLER-HAMMER
Type MDL, RMS 310 (06/07)
Frame/Model MDL
Sensor/Trip 800.0 A
Settings Phase
  Plug Adj (400-800A) 600A (600A)
  LTD (Fixed) Fixed
  STPU (2-8 x LTPU) 8 (4800A)
  STD (Inst-300 ms) 100 ms (I^s T Off)
  INST (6800A) Fixed (6800A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-2 - ATS EQ1
CBL-0201
BKR_EMERG A - EQ1 ATS [DAHOD]
CBL-0292
ATS_EQ1
ATS_EQ1 [D-ATS]
CBL-0304
PNL_DPEEQ1
BKR_DPEEQ1 - EQBH1
BKR_DPEEQ1 - EQSL

TCC Name: TCC_090_PNL_DPEEQ1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
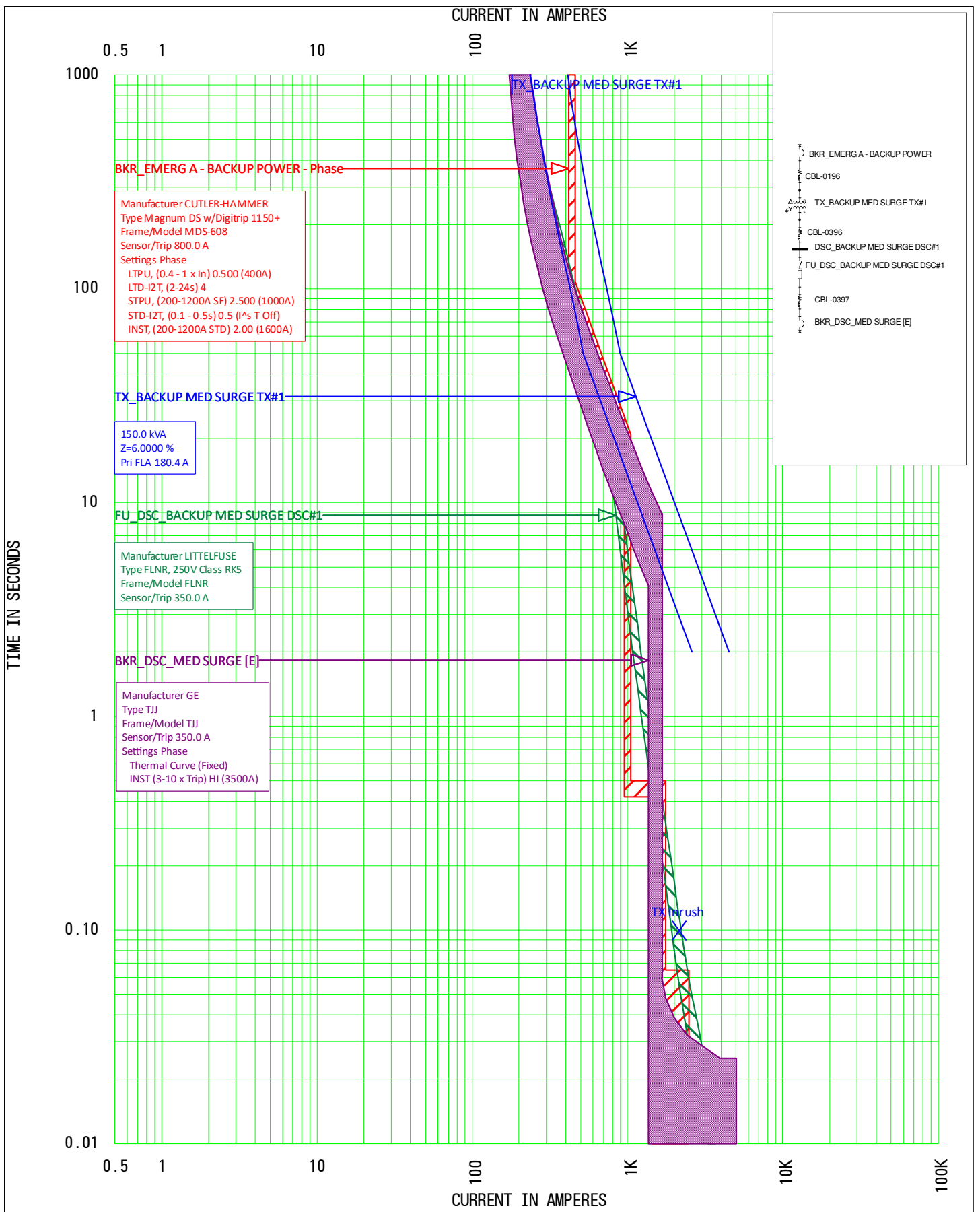Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_EMERG A - DPE - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 4.000 (3200A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 5.00 (4000A)

BKR_DPE - TX MECH RM BACKUP

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 150.0 A
Settings Phase
  Fixed

BKR_DPE - CRH ATS1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 225.0 A
Settings Phase
  Fixed

BKR_DPE - CRD ATS2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 225.0 A
Settings Phase
  Fixed

CURRENT IN AMPERES

BKR_EMERG A - DPE
CBL-0293
PNL_DPE
BKR_DPE - CRD ATS2
BKR_DPE - CRH ATS1
BKR_DPE - TX MECH RM BACKUP

TCC Name: TCC_091_PNL_DPE
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
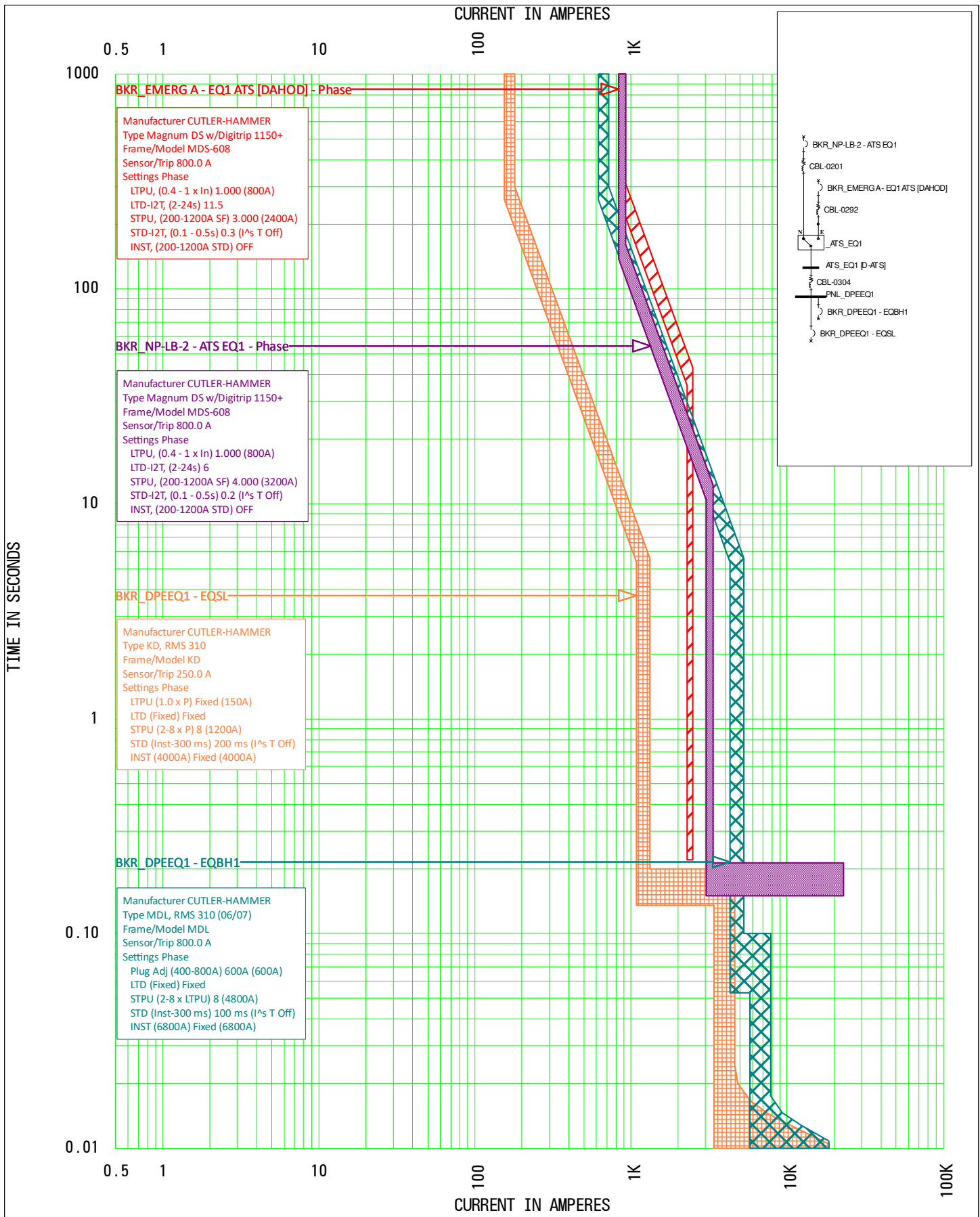Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

RLY_GEN3 GEAR - NEW "E" B SWBD - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 1.0

TX_EMERG-B [ET-2]

1500.0 kVA
Z=5.5900 %
Pri FLA 208.2 A

BKR_XSB EMERG-B - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3S-A
Sensor/Trip 2000.0 A
Settings Phase
  LTPU 1 (2000A)
  LTD 144
  STPU 2.27 (4540A)
  STD-I2T 0.05 (I^s T Off)

BKR_EMERG-B - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

T2 Inrush

Legend (right panel):

○ RLY_GEN3 GEAR - NEW "E" B SWBD
□ BKR_GEN3 GEAR - NEW "E" B SWBD
CBL-0028
TX_EMERG-B [ET-2]
BKR_XSB EMERG-B
CBL-0029
BKR_EMERG-B - MAIN

CURRENT IN AMPERES

TCC Name: TCC_092_TX_EMERG-B [ET-2]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
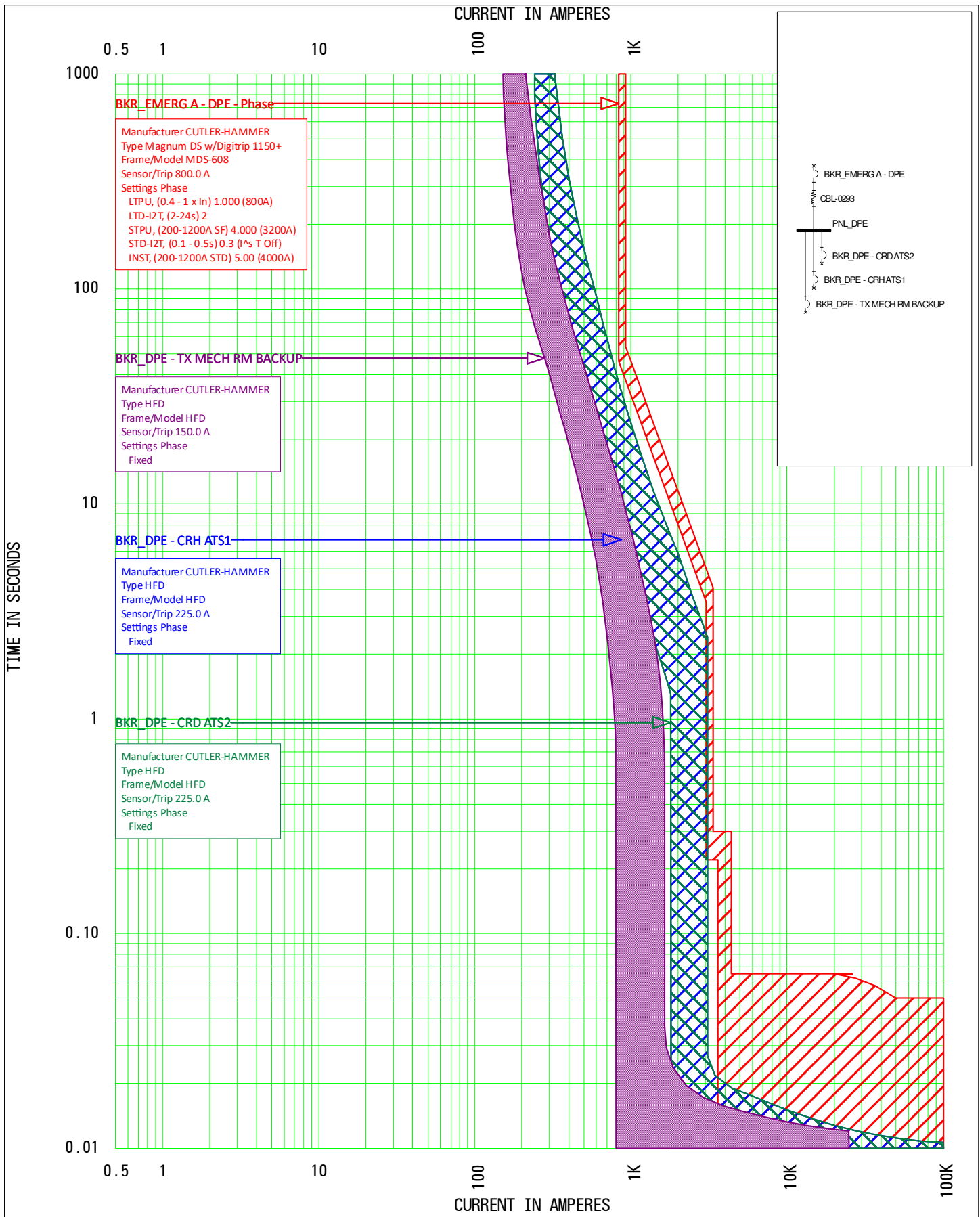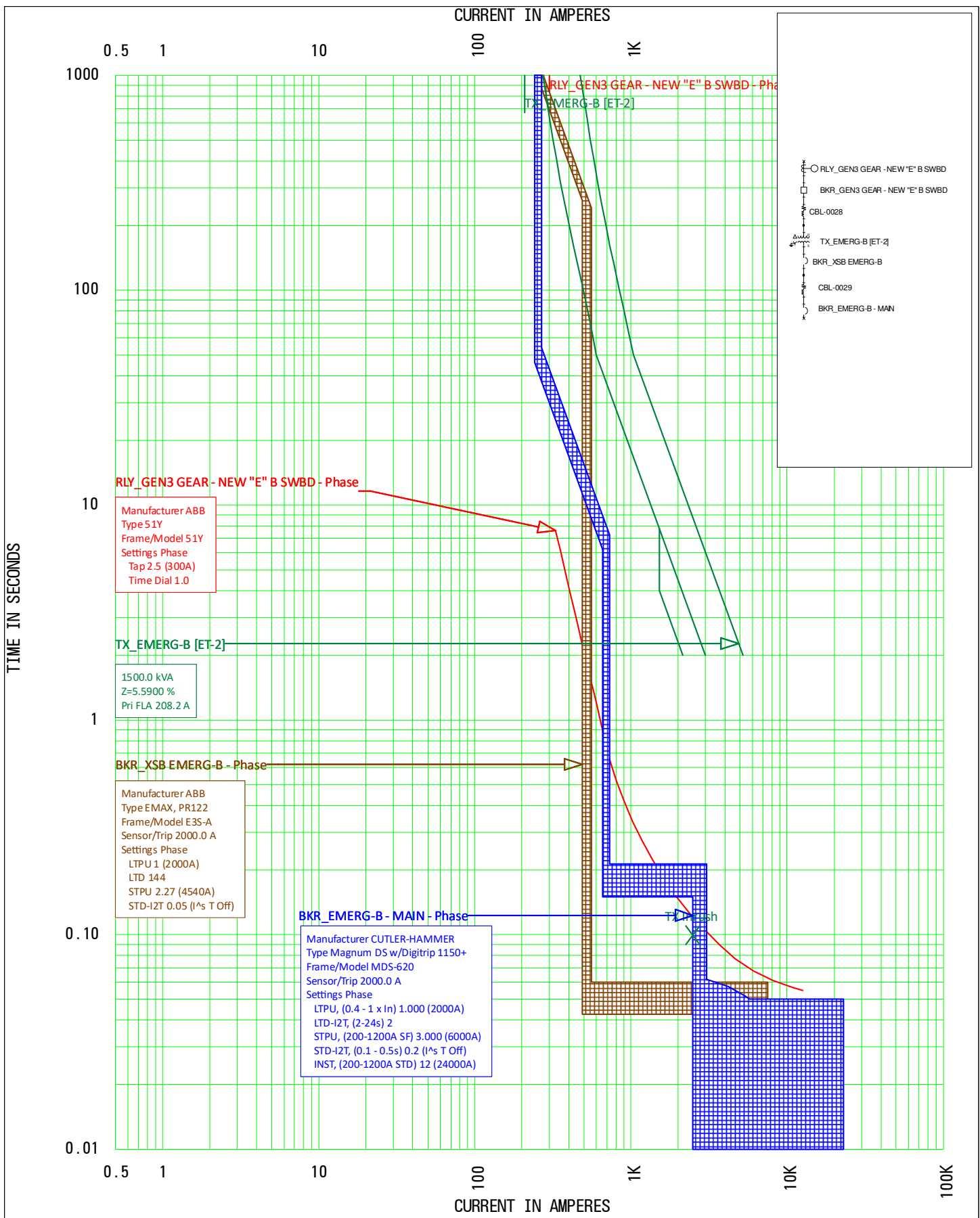Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-B - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (2000A)
 LTD-I2T, (2-24s) 2
 STPU, (200-1200A SF) 3.000 (6000A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) 12 (24000A)

BKR_EMERG B - C [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (2000A)
 LTD-I2T, (2-24s) 2
 STPU, (200-1200A SF) 3.000 (6000A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) 12 (24000A)

BKR_EMERG-TIE A-B - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (2000A)
 LTD-I2T, (2-24s) 2
 STPU, (200-1200A SF) 3.000 (6000A)
 STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
 INST, (200-1200A STD) 12 (24000A)

BKR_EMERG B - ATS EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (400A)
 LTD-I2T, (2-24s) 22
 STPU, (200-1200A SF) 8.000 (3200A)
 STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_EMERG B - EQ2 [MS] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (800A)
 LTD-I2T, (2-24s) 4
 STPU, (200-1200A SF) 2.500 (2000A)
 STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
 INST, (200-1200A STD) 2.00 (1600A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_EMERG-TIE A-B
BKR_EMERG-B - MAIN
SWGR_EMERG-B [SW#2]
CBL-0032
BKR_EMERG B - C [TIE]
BKR_EMERG B - EQ2 [MS]
BKR_EMERG B - ATS EQ2

TCC Name: TCC_093a_SWGR_EMERG-B [SW#2]_ph
Project #810133
Base Project

Reference Voltage: 480V
Lowell General Hospital
Main Campus

Current Scale x 1

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

0.5   1   10   100   1K

BKR_EMERG-B - MAIN - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
 GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG-TIE A-B
BKR_EMERG-B - MAIN
SWGR_EMERG-B [SW#2]
CBL-0032   BKR_EMERG B - C [TIE]
BKR_EMERG B - EQ2 [MS]
BKR_EMERG B - ATS EQ2

BKR_EMERG B - C [TIE] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
 GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG-TIE A-B - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Neutral
 GFPU, (1150, 0.25 - 1) 0.25 (500A)

BKR_EMERG B - ATS EQ2 - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Neutral
 GFPU, (1150, 0.25 - 1) 0.25 (100A)

BKR_EMERG B - EQ2 [MS] - Neutral

Manufacturer CUTLER-HAMMER
Type Magnum DS w/ Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Neutral
 GFPU, (1150, 0.25 - 1) 0.4 (320A)

TIME IN SECONDS

1000
100
10
1
0.10
0.01

0.5   1   10   100   1K   10K   100K

CURRENT IN AMPERES

TCC Name: TCC_093b_SWGR_EMERG-B [SW#2]_ne
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
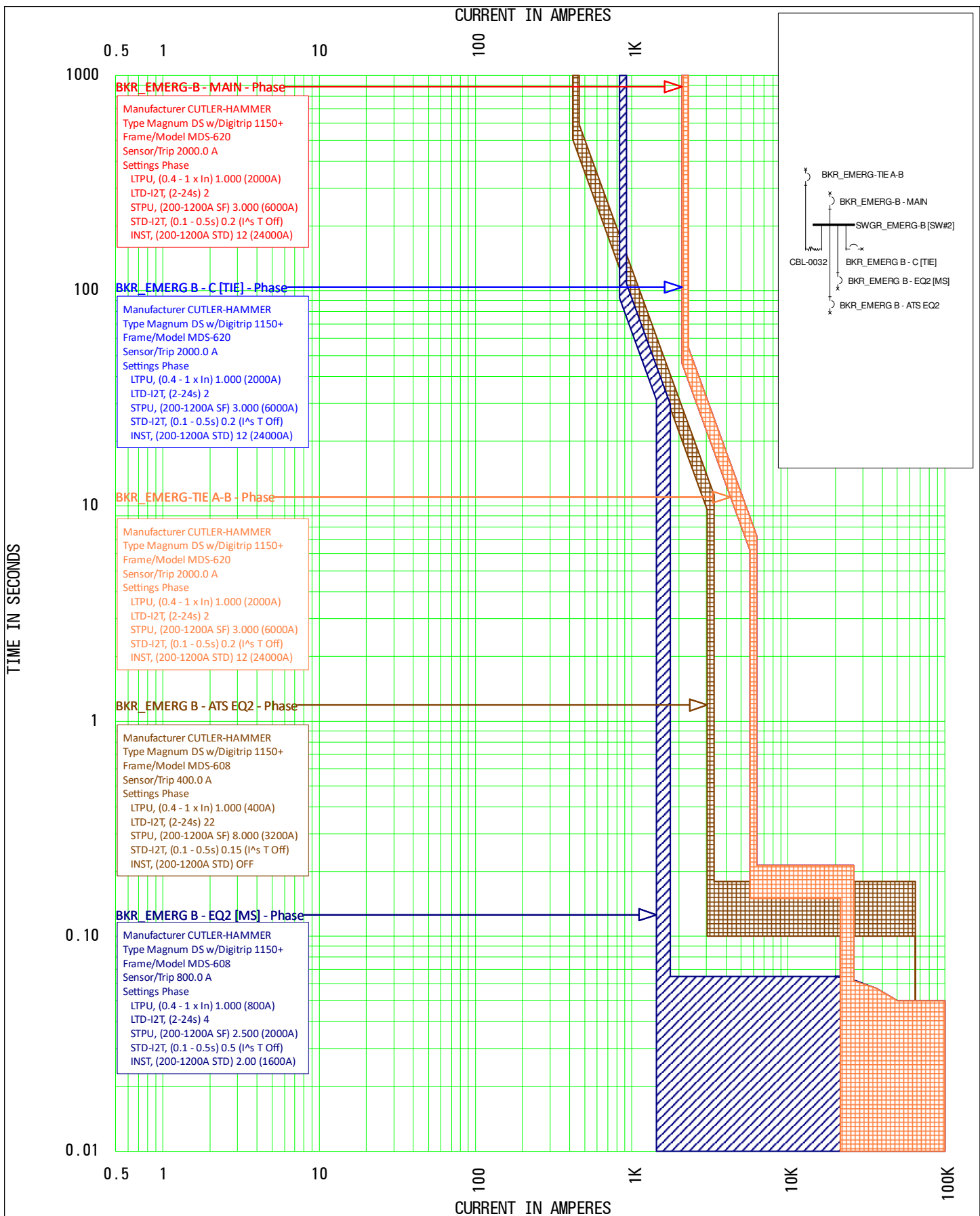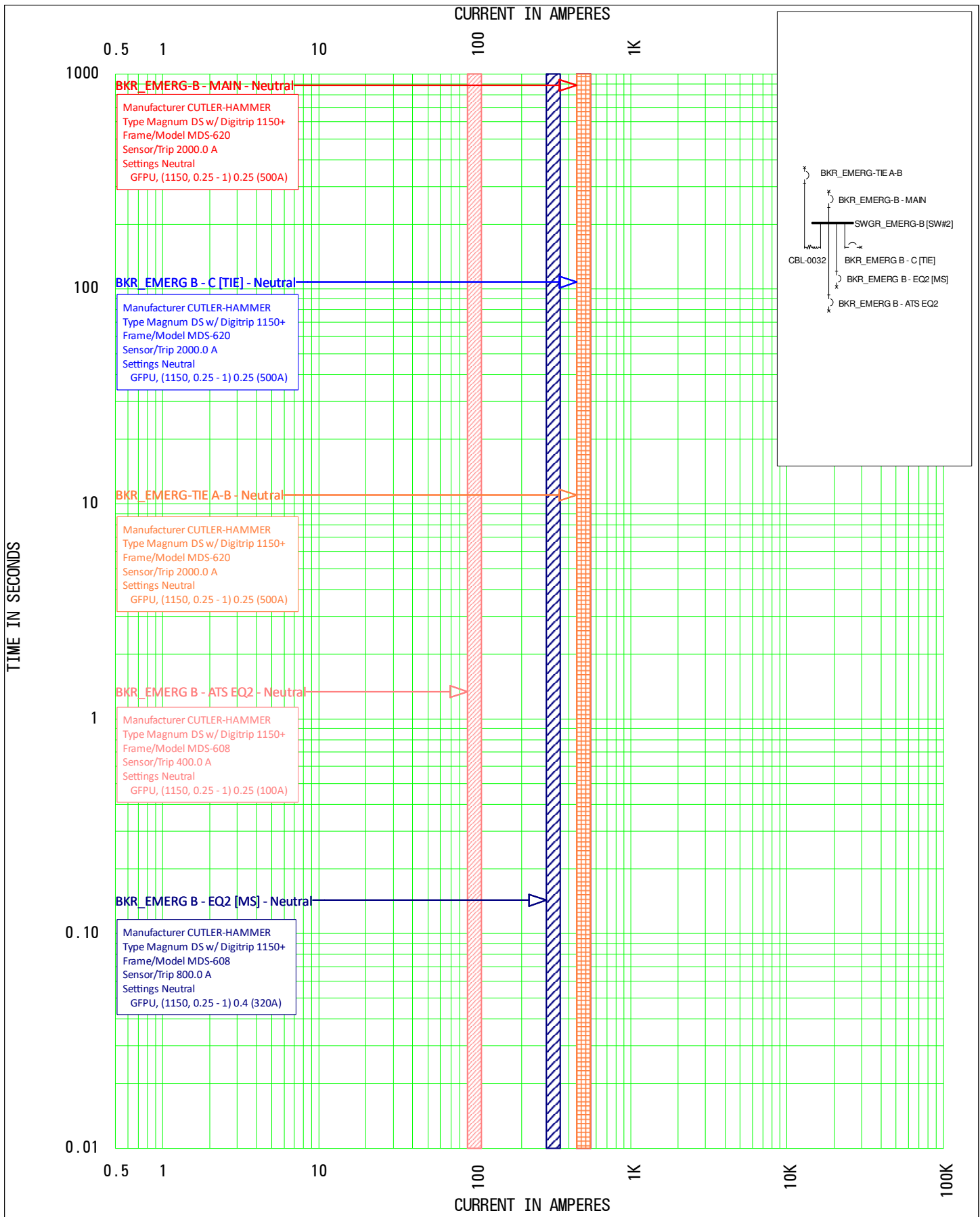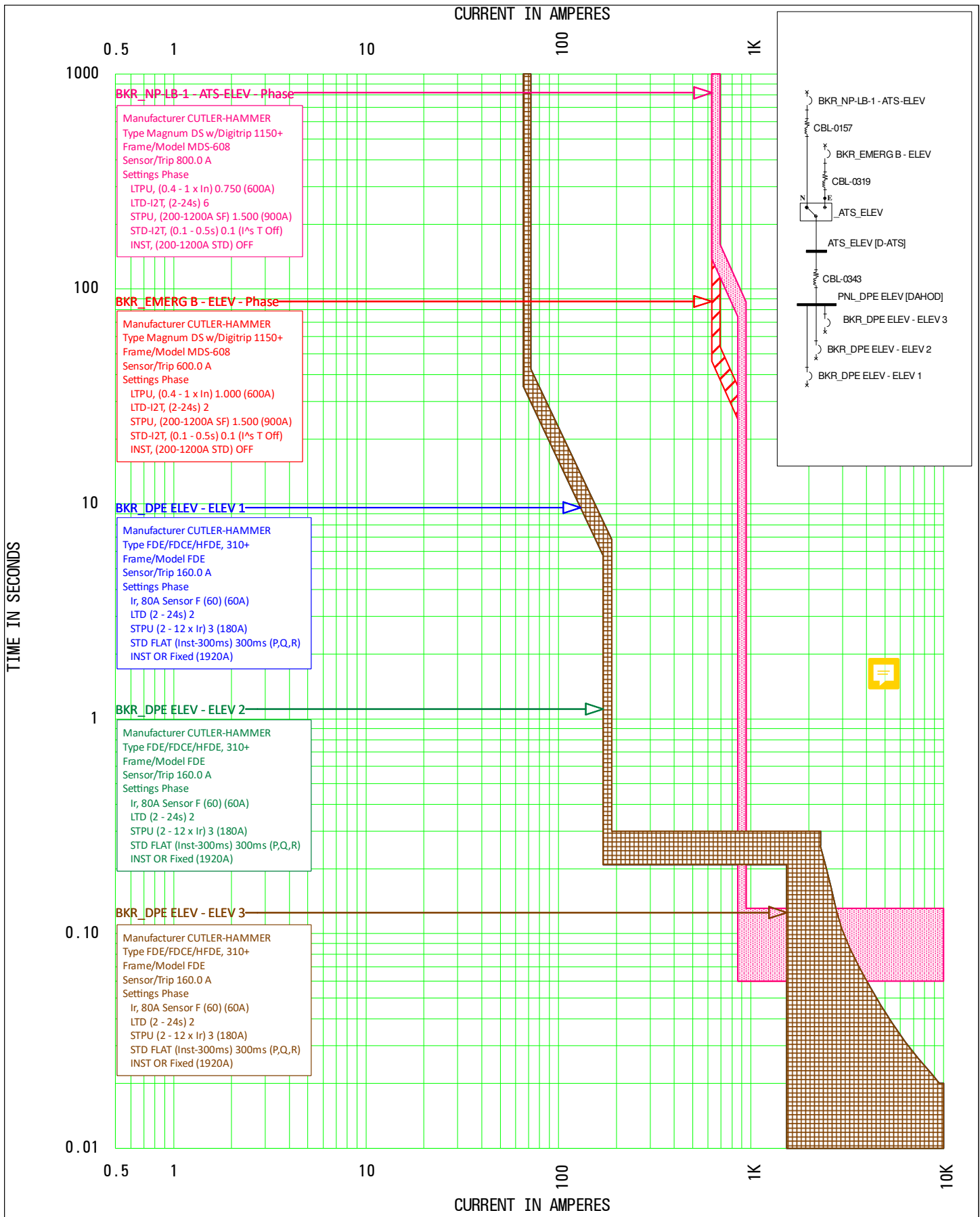Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-ELEV - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.750 (600A)
 LTD-I2T, (2-24s) 6
 STPU, (200-1200A SF) 1.500 (900A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_EMERG B - ELEV - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (600A)
 LTD-I2T, (2-24s) 2
 STPU, (200-1200A SF) 1.500 (900A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_DPE ELEV - ELEV 1
Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
 Ir, 80A Sensor F (60) (60A)
 LTD (2 - 24s) 2
 STPU (2 - 12 x Ir) 3 (180A)
 STD FLAT (Inst-300ms) 300ms (P,Q,R)
 INST OR Fixed (1920A)

BKR_DPE ELEV - ELEV 2
Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
 Ir, 80A Sensor F (60) (60A)
 LTD (2 - 24s) 2
 STPU (2 - 12 x Ir) 3 (180A)
 STD FLAT (Inst-300ms) 300ms (P,Q,R)
 INST OR Fixed (1920A)

BKR_DPE ELEV - ELEV 3
Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
 Ir, 80A Sensor F (60) (60A)
 LTD (2 - 24s) 2
 STPU (2 - 12 x Ir) 3 (180A)
 STD FLAT (Inst-300ms) 300ms (P,Q,R)
 INST OR Fixed (1920A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-ELEV
CBL-0157
BKR_EMERG B - ELEV
CBL-0319
N   E
_ATS_ELEV
ATS_ELEV [D-ATS]
CBL-0343
PNL_DPE ELEV [DAHOD]
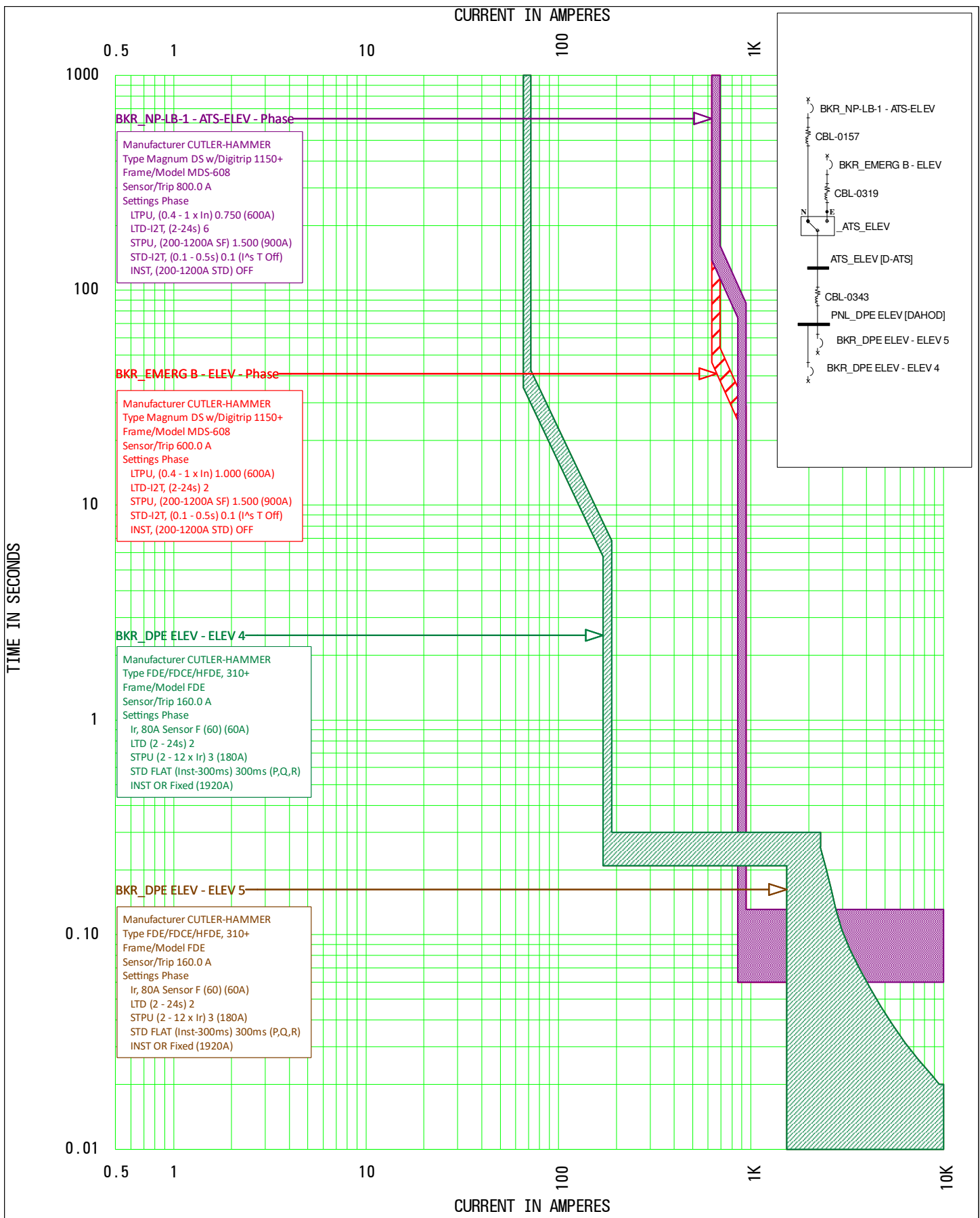BKR_DPE ELEV - ELEV 3
BKR_DPE ELEV - ELEV 2
BKR_DPE ELEV - ELEV 1

TCC Name: TCC_094-1_PNL_DPE ELEV [DAHOD]
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 480V
Lowell General Hospital
Main Campus
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-ELEV - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (600A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 1.500 (900A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_EMERG B - ELEV - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (600A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 1.500 (900A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_DPE ELEV - ELEV 4

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

BKR_DPE ELEV - ELEV 5

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
  Ir, 80A Sensor F (60) (60A)
  LTD (2 - 24s) 2
  STPU (2 - 12 x Ir) 3 (180A)
  STD FLAT (Inst-300ms) 300ms (P,Q,R)
  INST OR Fixed (1920A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-1 - ATS-ELEV
CBL-0157
BKR_EMERG B - ELEV
CBL-0319
_ATS_ELEV
ATS_ELEV [D-ATS]
CBL-0343
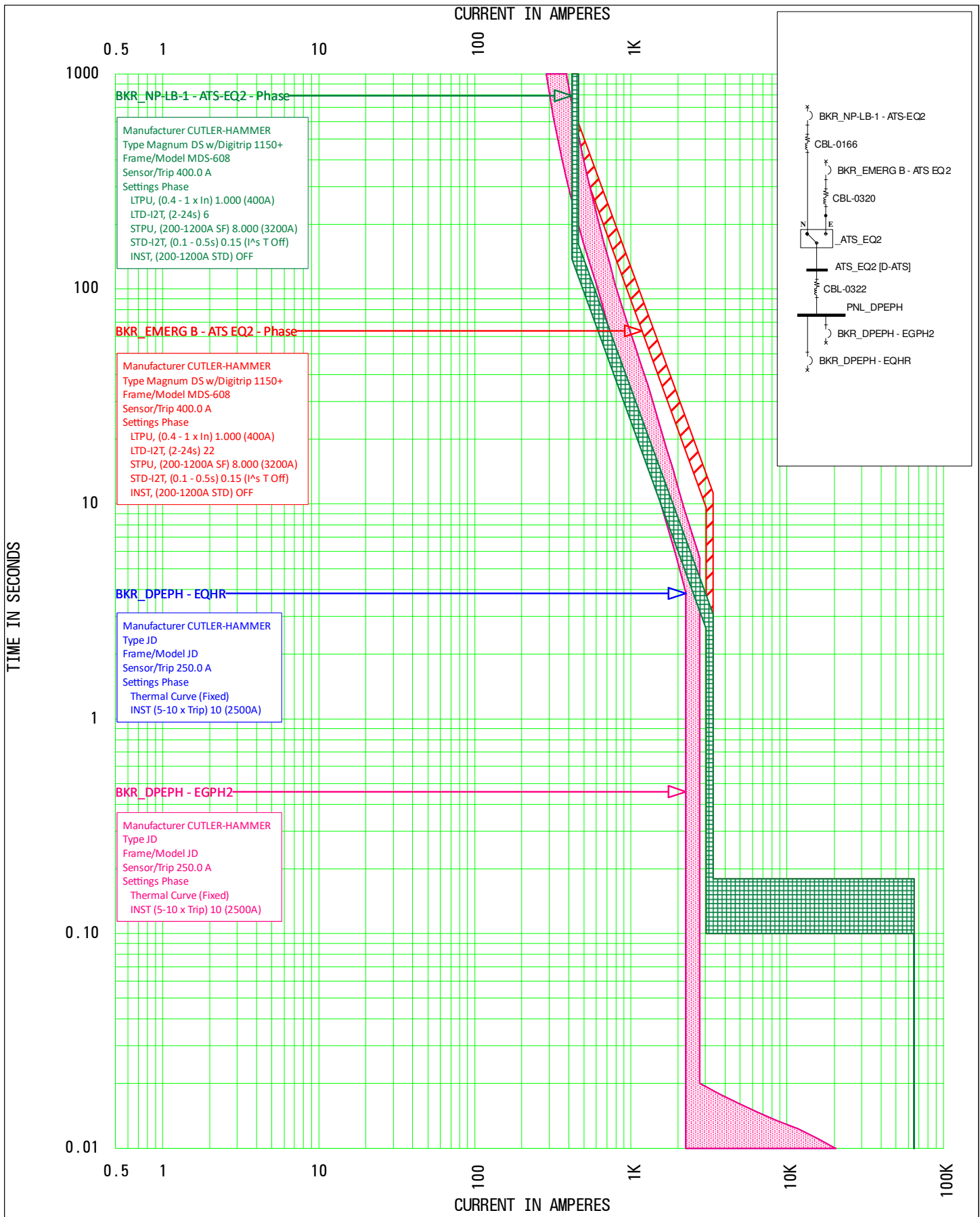PNL_DPE ELEV [DAHOD]
BKR_DPE ELEV - ELEV 5
BKR_DPE ELEV - ELEV 4

TCC Name: TCC_094-2_PNL_DPE ELEV [DAHOD]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 1.000 (400A)
   LTD-I2T, (2-24s) 6
   STPU, (200-1200A SF) 8.000 (3200A)
   STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_EMERG B - ATS EQ2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 1.000 (400A)
   LTD-I2T, (2-24s) 22
   STPU, (200-1200A SF) 8.000 (3200A)
   STD-I2T, (0.1 - 0.5s) 0.15 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_DPEPH - EQHR

Manufacturer CUTLER-HAMMER
Type JD
Frame/Model JD
Sensor/Trip 250.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (5-10 x Trip) 10 (2500A)

BKR_DPEPH - EGPH2

Manufacturer CUTLER-HAMMER
Type JD
Frame/Model JD
Sensor/Trip 250.0 A
Settings Phase
   Thermal Curve (Fixed)
   INST (5-10 x Trip) 10 (2500A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-EQ2
CBL-0166
BKR_EMERG B - ATS EQ 2
CBL-0320
N   E
ATS_EQ2
ATS_EQ2 [D-ATS]
CBL-0322
PNL_DPEPH
BKR_DPEPH - EGPH2
BKR_DPEPH - EQHR

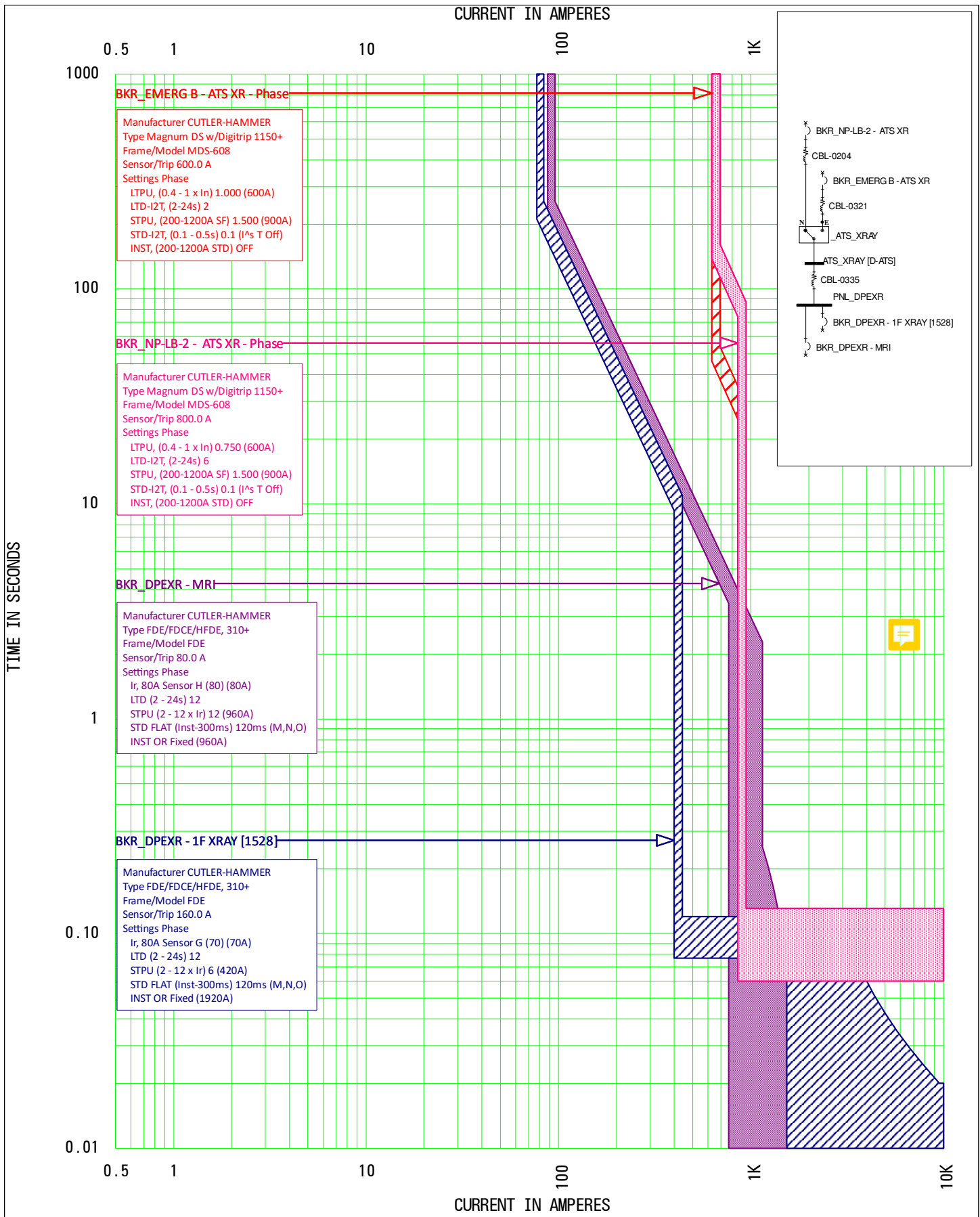TCC Name: TCC_095_PNL_DPEPH
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG B - ATS XR - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 600.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 1.000 (600A)
 LTD-I2T, (2-24s) 2
 STPU, (200-1200A SF) 1.500 (900A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_NP-LB-2 - ATS XR - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.4 - 1 x In) 0.750 (600A)
 LTD-I2T, (2-24s) 6
 STPU, (200-1200A SF) 1.500 (900A)
 STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
 INST, (200-1200A STD) OFF

BKR_DPEXR - MRI

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 80.0 A
Settings Phase
 Ir, 80A Sensor H (80) (80A)
 LTD (2 - 24s) 12
 STPU (2 - 12 x Ir) 12 (960A)
 STD FLAT (Inst-300ms) 120ms (M,N,O)
 INST OR Fixed (960A)

BKR_DPEXR - 1F XRAY [1528]

Manufacturer CUTLER-HAMMER
Type FDE/FDCE/HFDE, 310+
Frame/Model FDE
Sensor/Trip 160.0 A
Settings Phase
 Ir, 80A Sensor G (70) (70A)
 LTD (2 - 24s) 12
 STPU (2 - 12 x Ir) 6 (420A)
 STD FLAT (Inst-300ms) 120ms (M,N,O)
 INST OR Fixed (1920A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-2 - ATS XR
CBL-0204
BKR_EMERG B - ATS XR
CBL-0321
_ATS_XRAY
ATS_XRAY [D-ATS]
CBL-0335
PNL_DPEXR
BKR_DPEXR - 1F XRAY [1528]
BKR_DPEXR - MRI

TCC Name: TCC_096_PNL_DPEXR
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
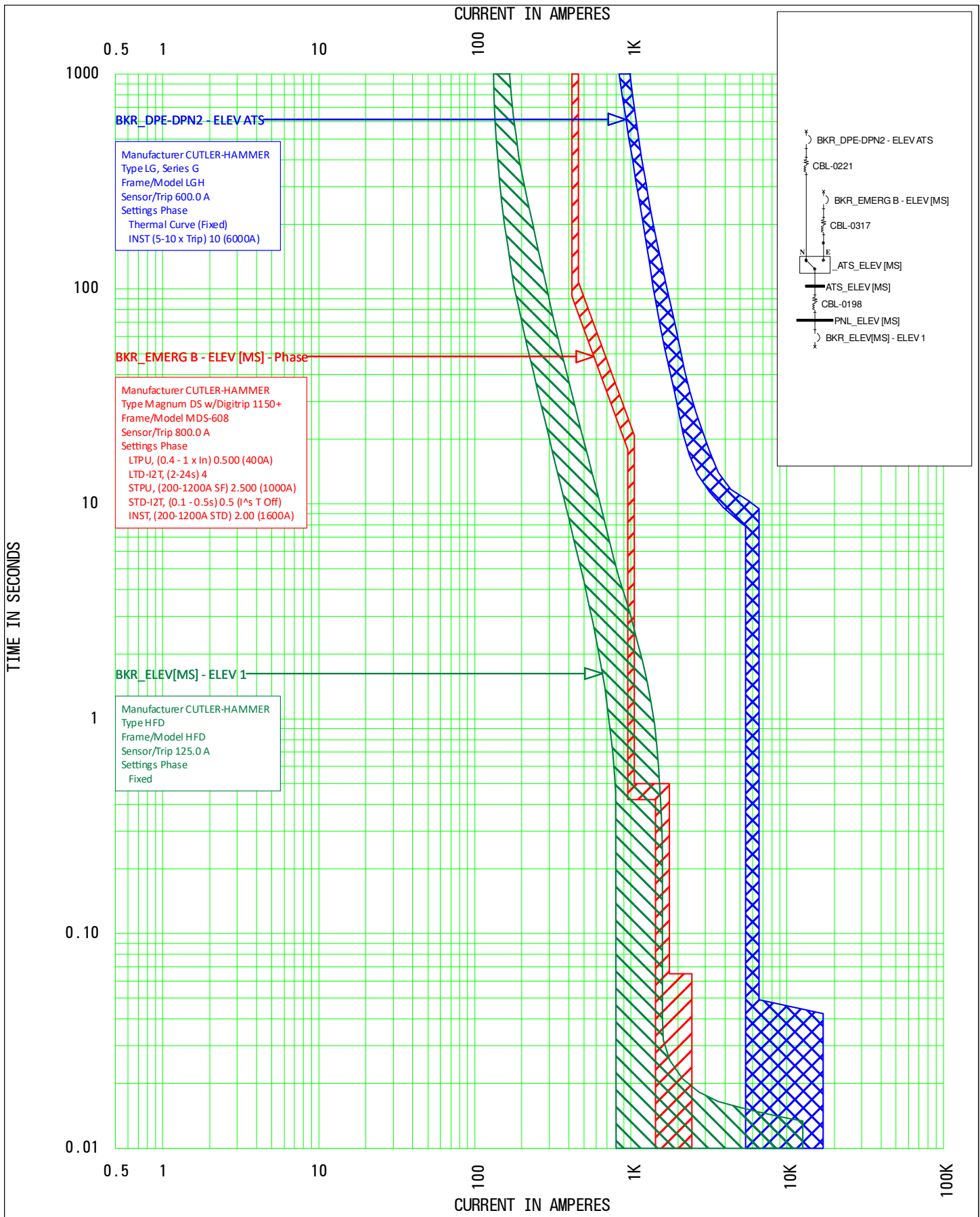Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE-DPN2 - ELEV ATS

Manufacturer CUTLER-HAMMER
Type LG, Series G
Frame/Model LGH
Sensor/Trip 600.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (6000A)

BKR_EMERG B - ELEV [MS] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (1000A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_ELEV[MS] - ELEV 1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPE-DPN2 - ELEV ATS
CBL-0221
BKR_EMERG B - ELEV [MS]
CBL-0317
N   E
ATS_ELEV [MS]
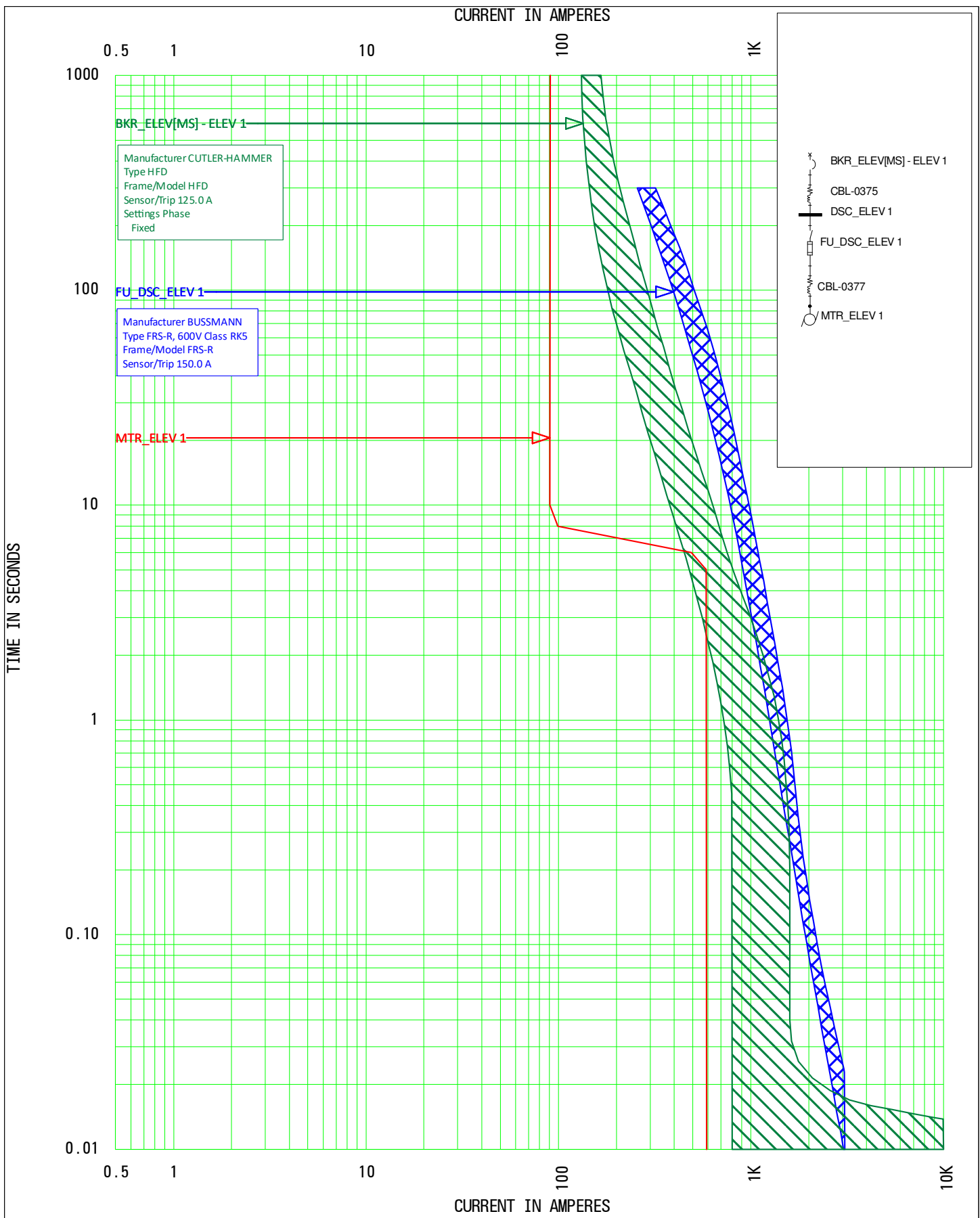ATS_ELEV [MS]
CBL-0198
PNL_ELEV [MS]
BKR_ELEV[MS] - ELEV 1

TCC Name: TCC_097_PNL_ELEV [MS]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

Chart axes:
- Top/Bottom X-axis: CURRENT IN AMPERES (0.5, 1, 10, 100, 1K, 10K)
- Left Y-axis: TIME IN SECONDS (1000, 100, 10, 1, 0.10, 0.01)

BKR_ELEV[MS] - ELEV 1
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
    Fixed

FU_DSC_ELEV 1
Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 1

One-line diagram legend:
- BKR_ELEV[MS] - ELEV 1
- CBL-0375
- DSC_ELEV 1
- FU_DSC_ELEV 1
- CBL-0377
- MTR_ELEV 1

TCC Name: TCC_098_MTR_ELEV 1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
 Fixed

FU_DSC_ELEV 2

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 2

TIME IN SECONDS

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 2
CBL-0376
DSC_ELEV 2
FU_DSC_ELEV 2
CBL-0378
MTR_ELEV 2

TCC Name: TCC_099_MTR_ELEV 2
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

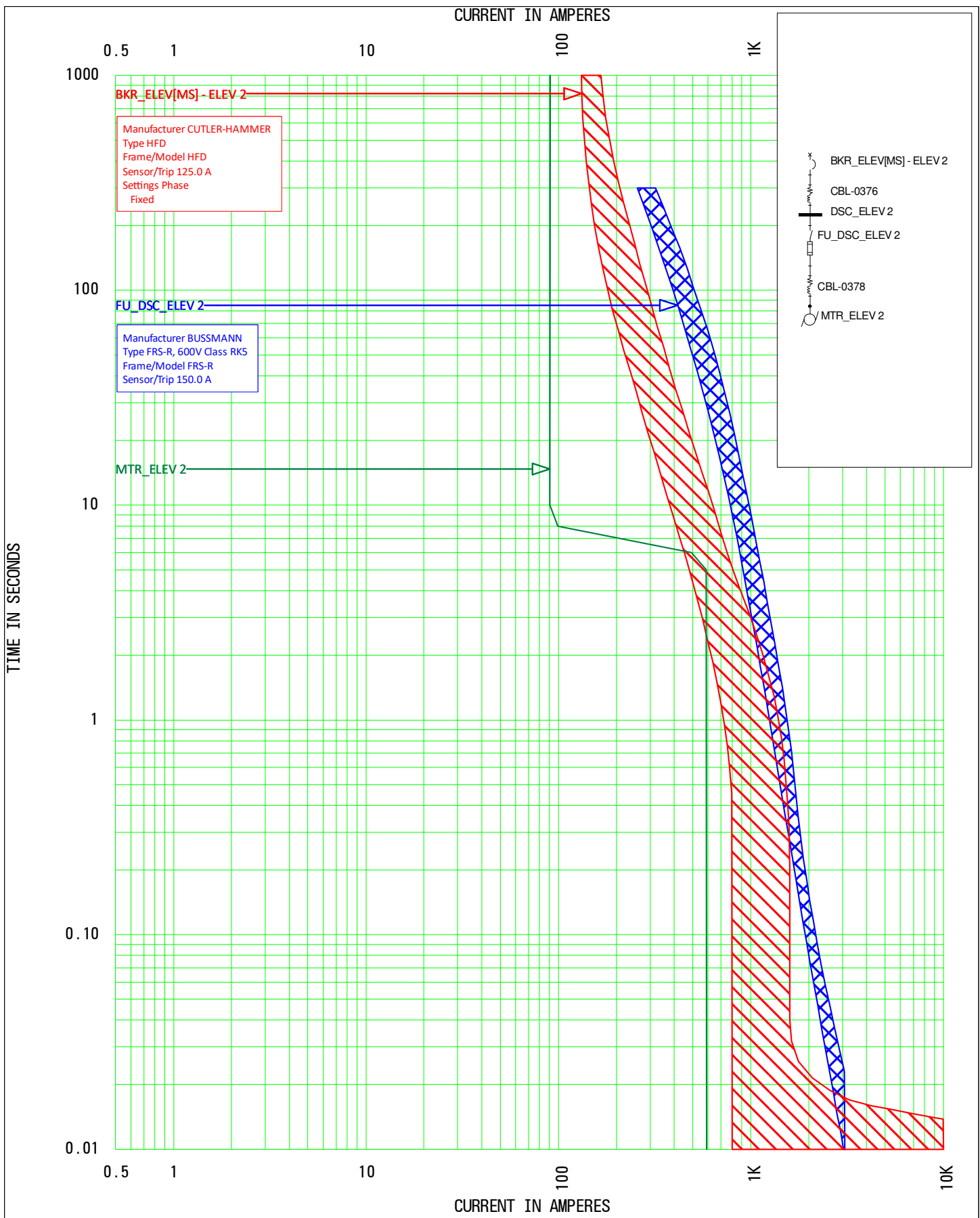CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 3

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
   Fixed

FU_DSC_ELEV 3

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 3

TIME IN SECONDS

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 3
CBL-0379
DSC_ELEV 3
FU_DSC_ELEV 3
CBL-0380
MTR_ELEV 3

TCC Name: TCC_100_MTR_ELEV 3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 4

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 125.0 A
Settings Phase
    Fixed

FU_DSC_ELEV 4

Manufacturer BUSSMANN
Type FRS-R, 600V Class RK5
Frame/Model FRS-R
Sensor/Trip 150.0 A

MTR_ELEV 4

TIME IN SECONDS

CURRENT IN AMPERES

BKR_ELEV[MS] - ELEV 4
CBL-0381
DSC_ELEV 4
FU_DSC_ELEV 4
CBL-0382
MTR_ELEV 4

TCC Name: TCC_101_MTR_ELEV 4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
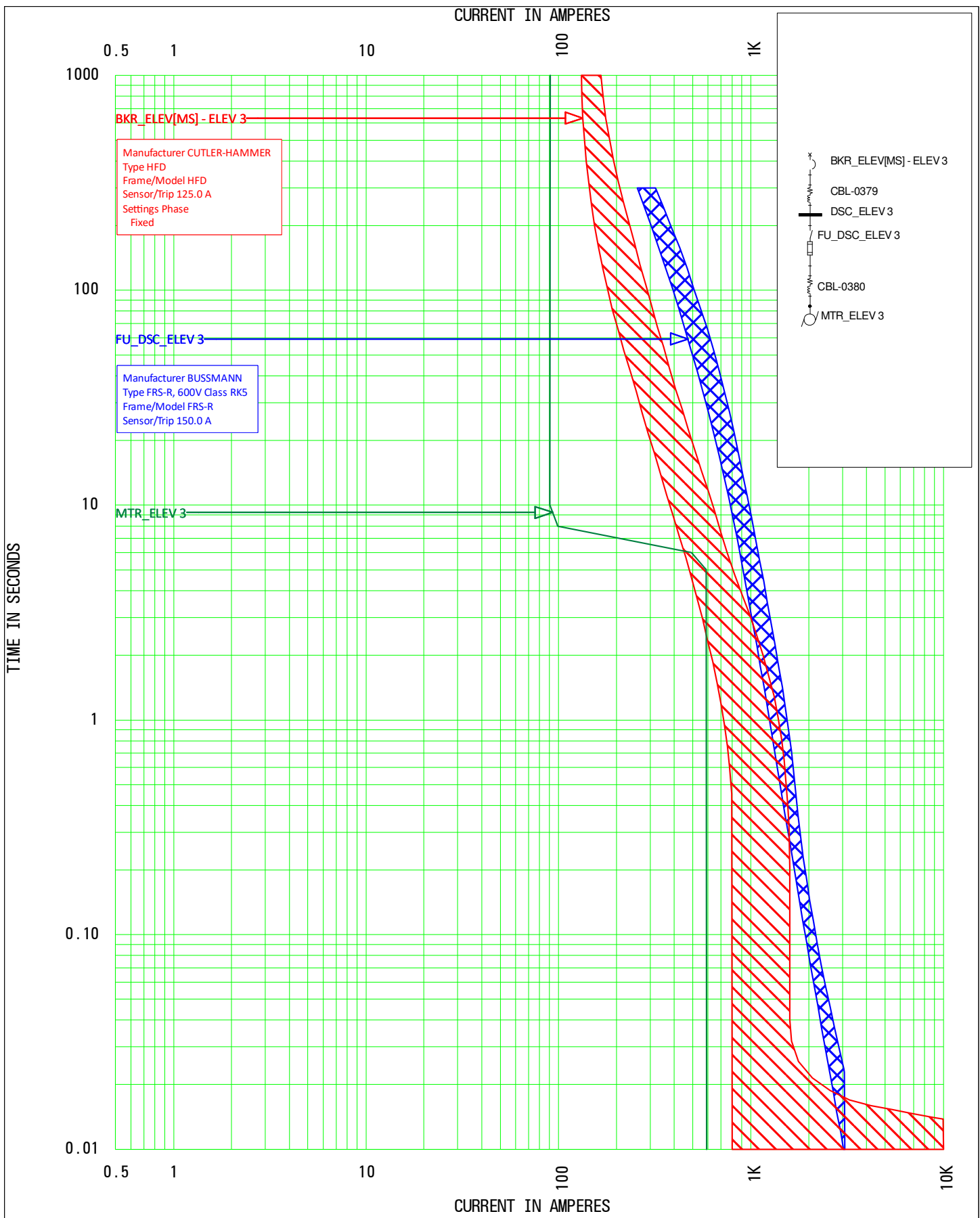Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_DPE-DPN2 - EQ2 ATS
Manufacturer CUTLER-HAMMER
Type HKD
Frame/Model HKD
Sensor/Trip 400.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (4000A)

BKR_EMERG B - EQ2 [MS] - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_EQ2 - EQ2HMP1
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_EQ2 - MED AIR
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 90.0 A
Settings Phase
  Fixed

BKR_EQ2 - PUMPS
Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 90.0 A
Settings Phase
  Fixed

BKR_EQ2 - EQ2HMP2
Manufacturer CUTLER-HAMMER
Type HJD
Frame/Model HJD
Sensor/Trip 250.0 A
Settings Phase
  Thermal Curve (Fixed)
  INST (5-10 x Trip) 10 (2500A)

One-line diagram labels:
- BKR_DPE-DPN2 - EQ2 ATS
- CBL-0223_1
- BKR_EMERG B - EQ2 [MS]
- CBL-0318
- _ATS_EQ2 [MS]
- ATS_EQ2 [MS]
- CBL-0200
- PNL_EQ2 [MS]
- BKR_EQ2 - EQ2HMP2
- BKR_EQ2 - PUMPS
- BKR_EQ2 - MED AIR
- BKR_EQ2 - EQ2HMP1

CURRENT IN AMPERES

TCC Name: TCC_102_PNL_EQ2 [MS]
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 480V
Lowell General Hospital
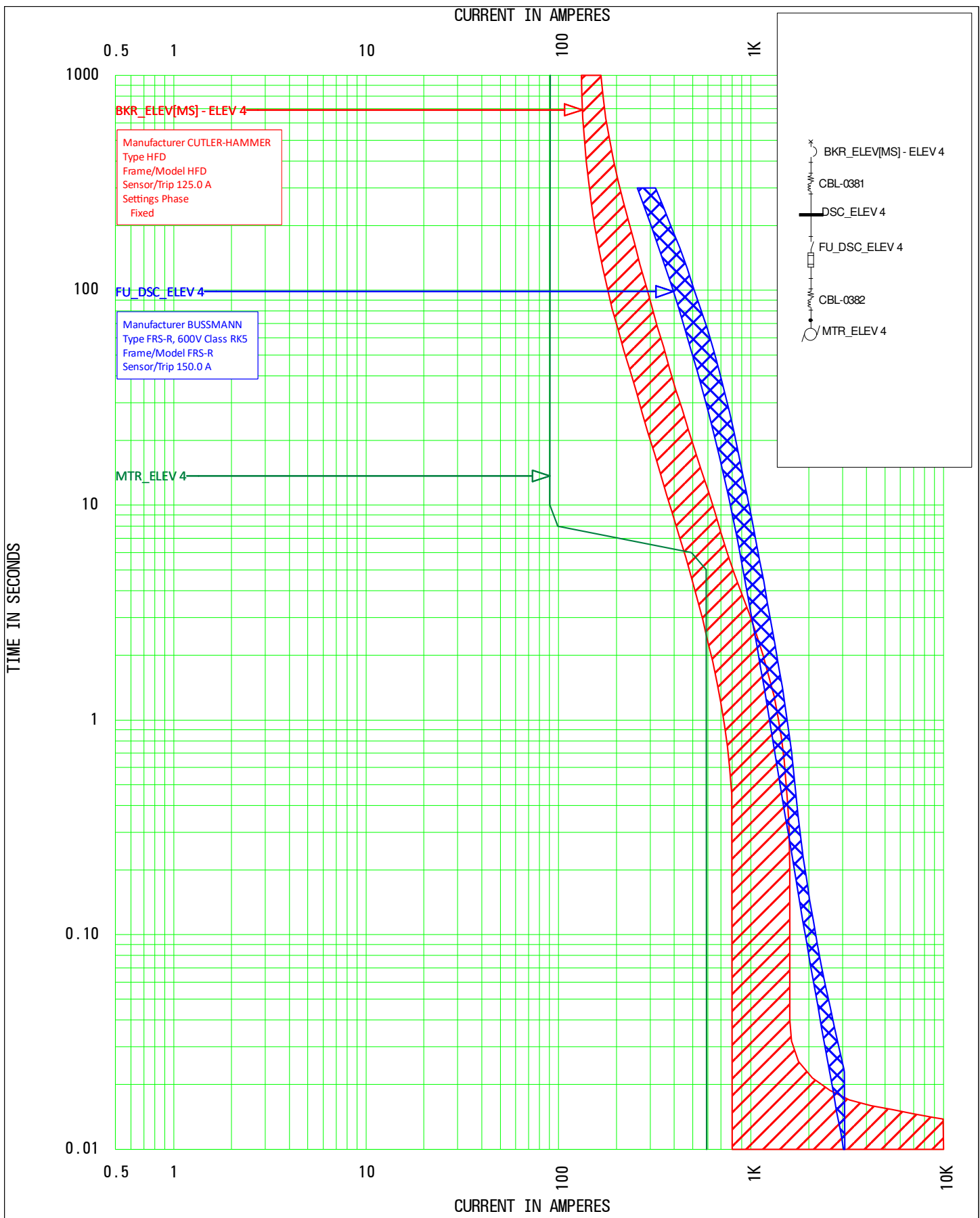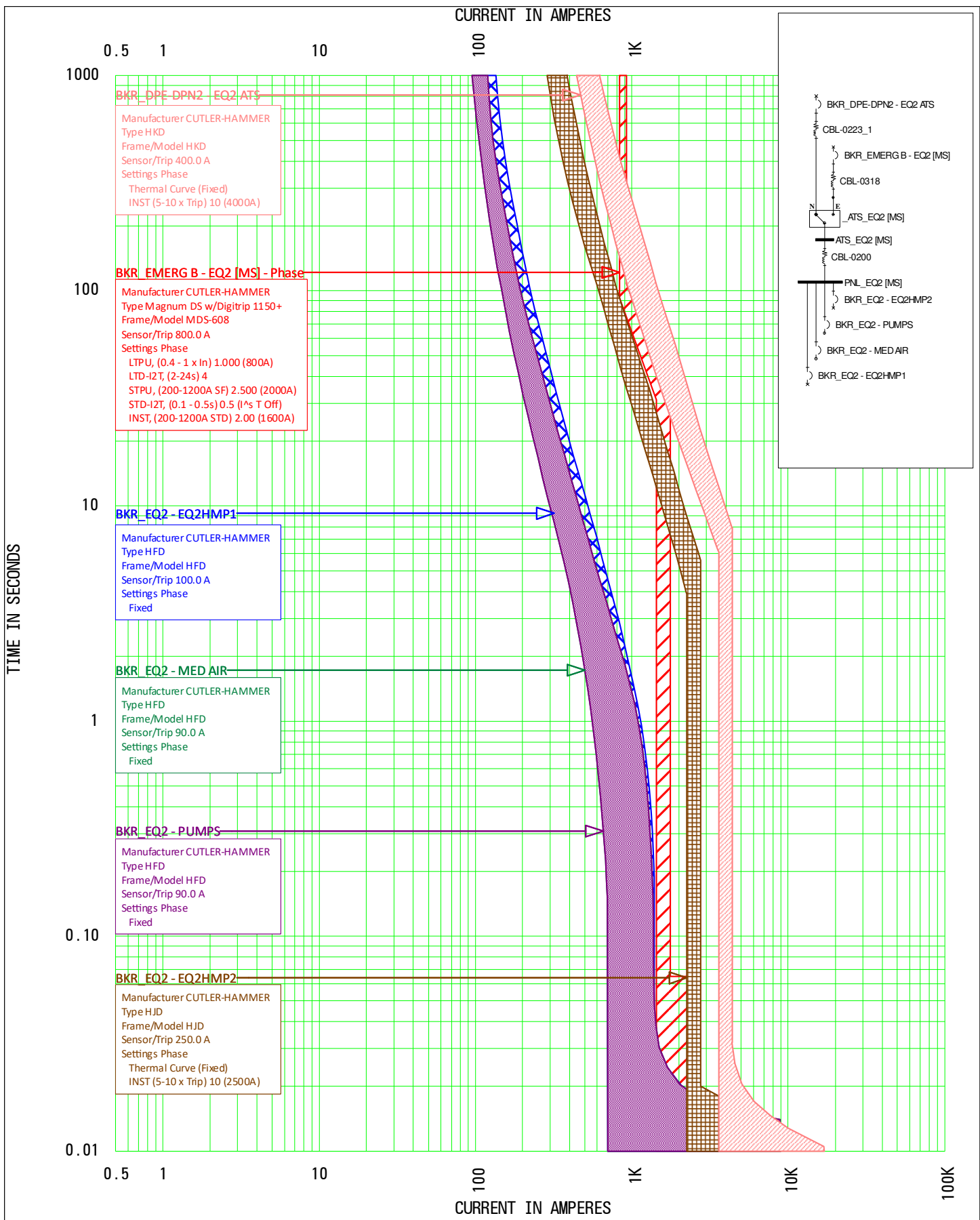Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG-C - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

BKR_EMERG B - C [TIE] - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

BKR_EMERG C -DAHOD LS GEAR TIE - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_EMERG C - CR2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_EMERG C - LS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 8.000 (1200A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 10.00 (2000A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_EMERG B - C [TIE]
- BKR_EMERG-C - MAIN
- SWGR_EMERG-C [SW#3]
- CBL-0035
- BKR_EMERG C -DAHOD LS GEAR TIE
- BKR_EMERG C - CR2
- BKR_EMERG C - LS

TCC Name: TCC_103_SWGR_EMERG C
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
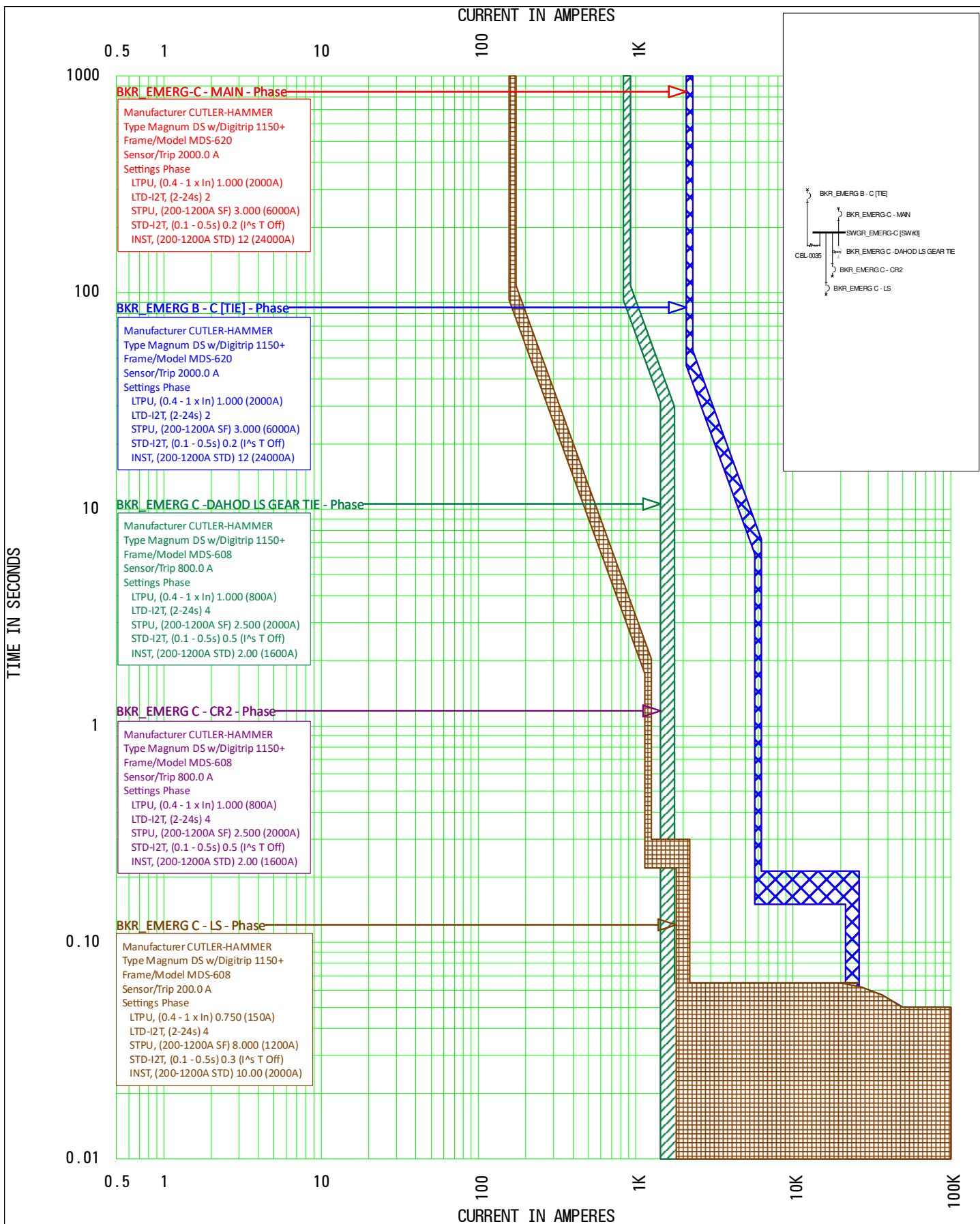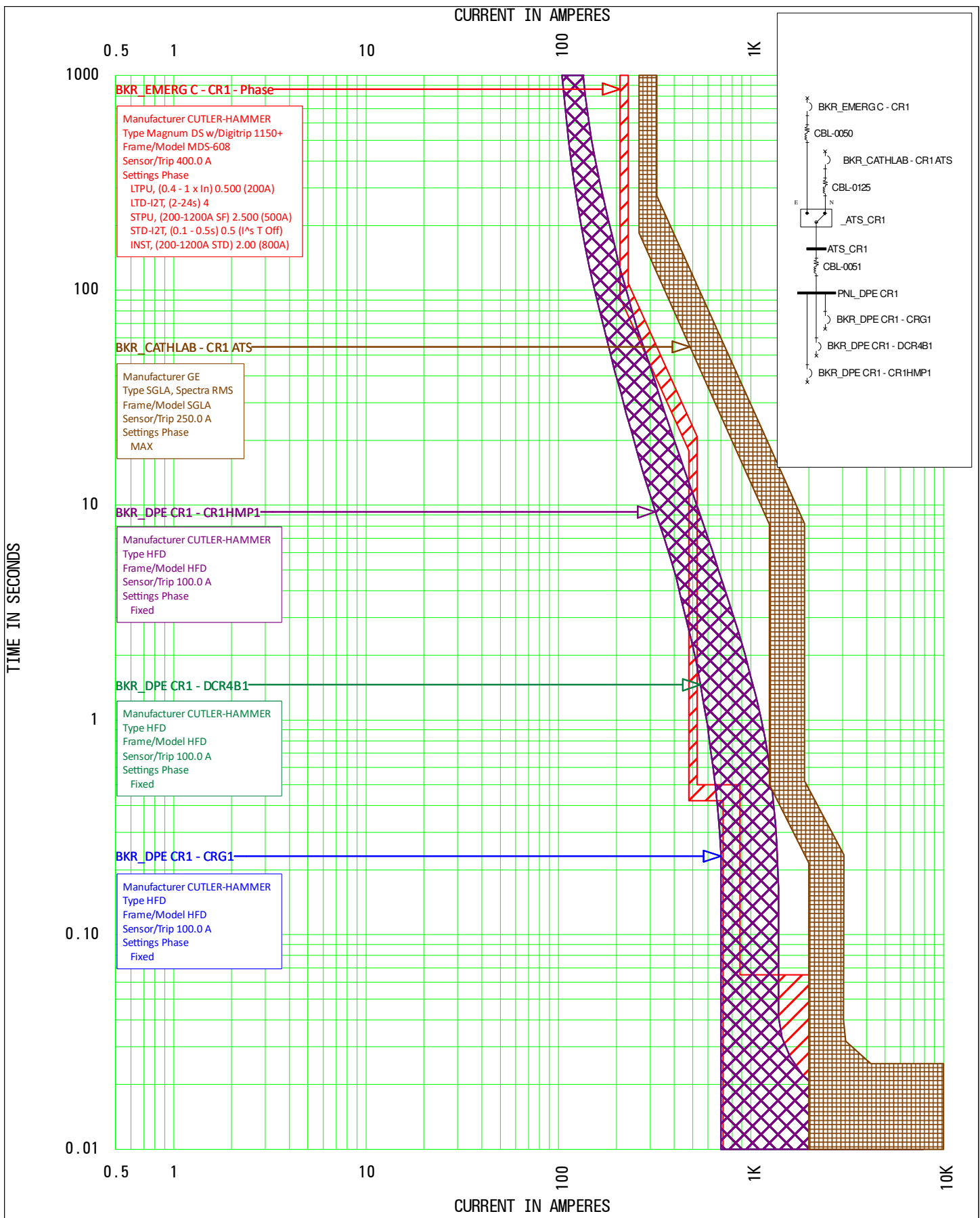Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG C - CR1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 400.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (200A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (500A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (800A)

BKR_CATHLAB - CR1 ATS

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 250.0 A
Settings Phase
  MAX

BKR_DPE CR1 - CR1HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE CR1 - DCR4B1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE CR1 - CRG1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_EMERG C - CR1
CBL-0050
BKR_CATHLAB - CR1 ATS
CBL-0125
_ATS_CR1
ATS_CR1
CBL-0051
PNL_DPE CR1
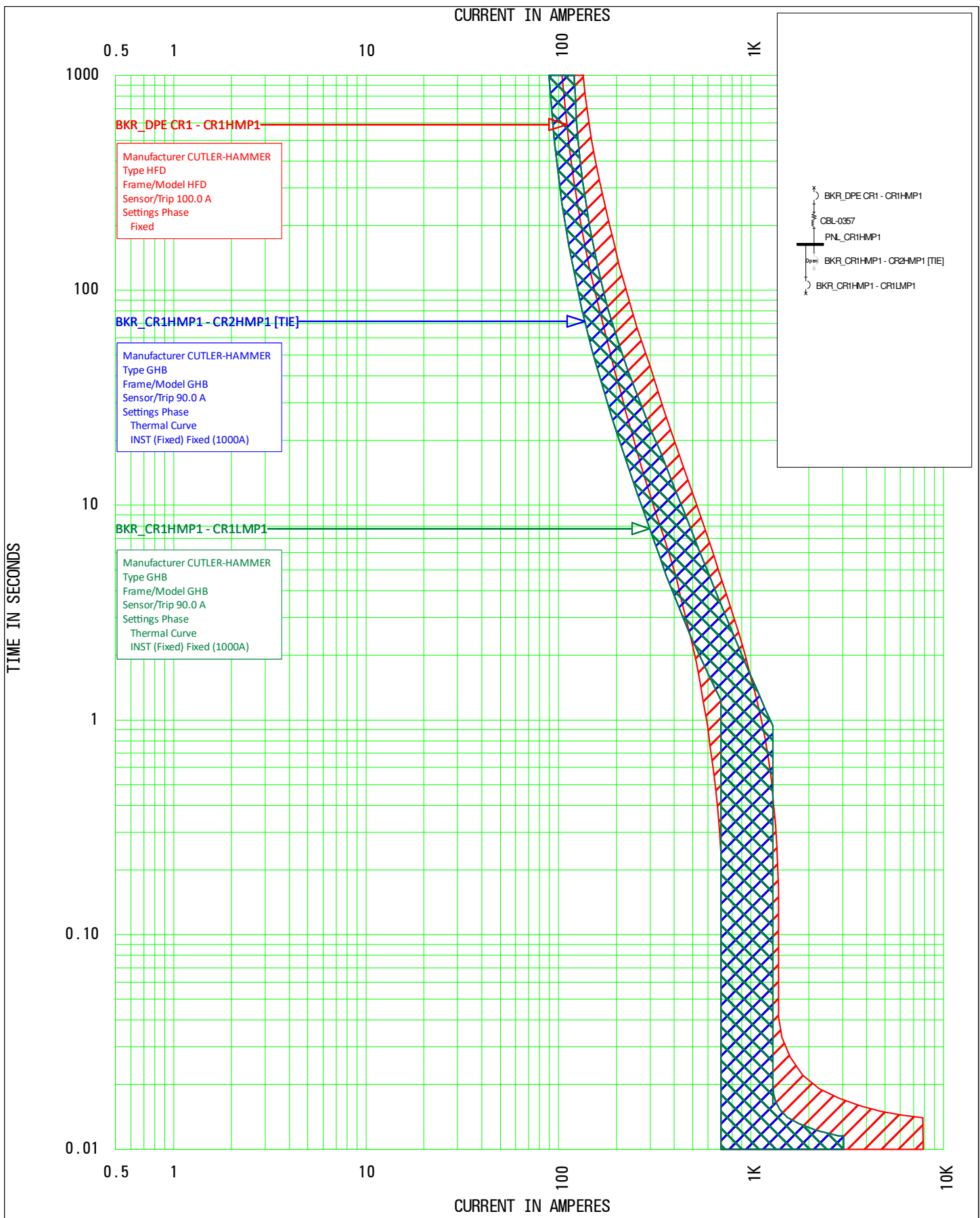BKR_DPE CR1 - CRG1
BKR_DPE CR1 - DCR4B1
BKR_DPE CR1 - CR1HMP1

TCC Name: TCC_104_PNL_DPE CR1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

TIME IN SECONDS

BKR_DPE CR1 - CR1HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_CR1HMP1 - CR2HMP1 [TIE]

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve
  INST (Fixed) Fixed (1000A)

BKR_CR1HMP1 - CR1LMP1

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve
  INST (Fixed) Fixed (1000A)

BKR_DPE CR1 - CR1HMP1

CBL-0357

PNL_CR1HMP1

BKR_CR1HMP1 - CR2HMP1 [TIE]

BKR_CR1HMP1 - CR1LMP1

CURRENT IN AMPERES

TCC Name: TCC_105_PNL_CR1HMP1	Reference Voltage: 480V
Project #810133	Lowell General Hospital
Base Project	Current Scale x 1	Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG C - CR2 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (800A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 2.500 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.5 (I^s T Off)
  INST, (200-1200A STD) 2.00 (1600A)

BKR_CATHLAB - CR2 ATS

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 400.0 A
Settings Phase
  MAX

BKR_DPE CR2 - CR2HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE CR2 - DCR4B2

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_EMERG C - CR2
CBL-0056
BKR_CATHLAB - CR2 ATS
CBL-0126
_ATS_CR2
ATS_CR2
CBL-0057
PNL_DPE CR2
BKR_DPE CR2 - DCR4B2
BKR_DPE CR2 - CR2HMP1

TCC Name: TCC_106_PNL_DPE CR2
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
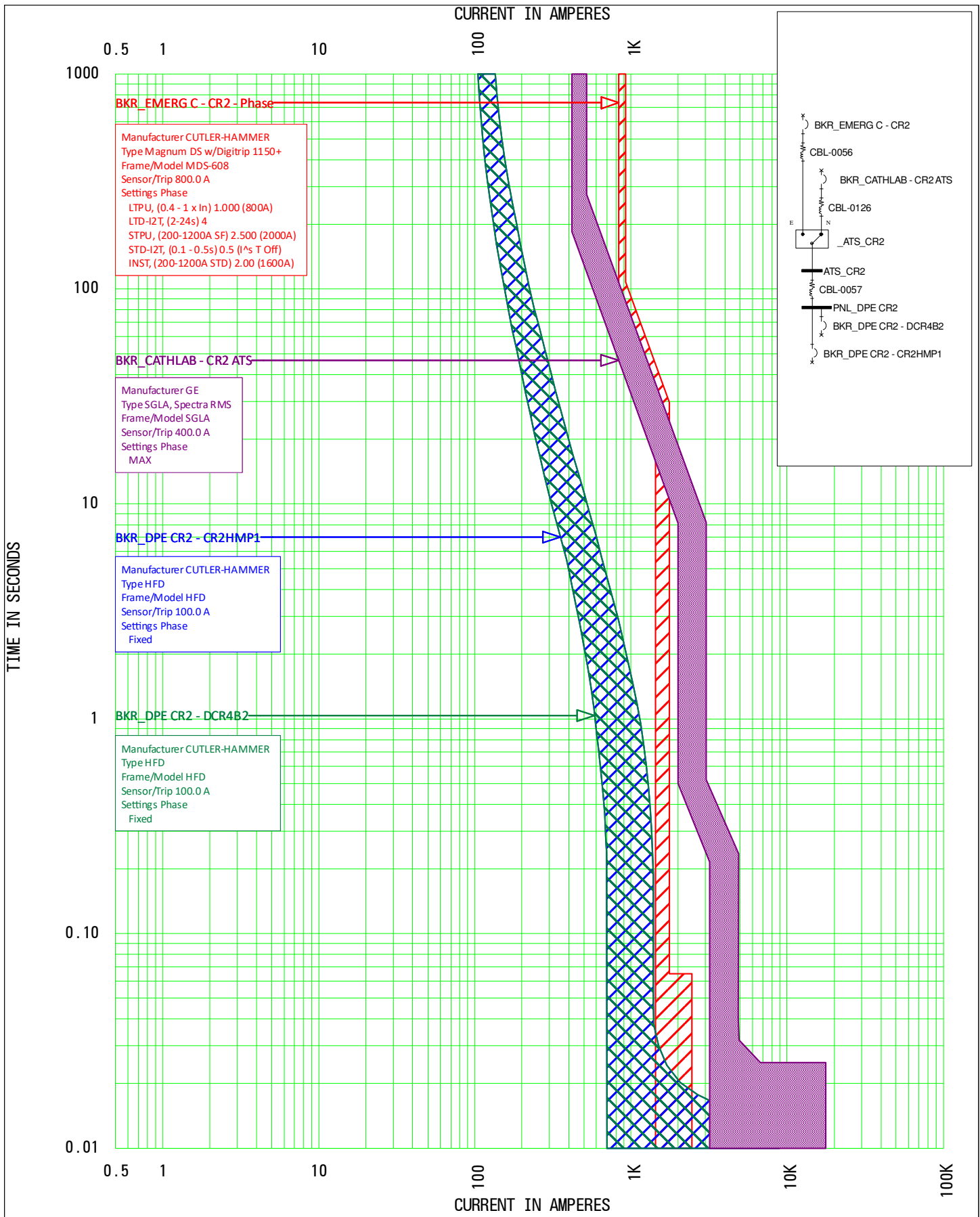Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPE CR2 - CR2HMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
   Fixed

BKR_CR2HMP1 - CR1HMP1 [TIE]

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve
   INST (Fixed) Fixed (1000A)

BKR_CR2HMP1 - CR2LMP1

Manufacturer CUTLER-HAMMER
Type GHB
Frame/Model GHB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve
   INST (Fixed) Fixed (1000A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPE CR2 - CR2HMP1
CBL-0364
PNL_CR2HMP1
BKR_CR2HMP1 - CR2LMP1
Open BKR_CR2HMP1 - CR1HMP1 [TIE]

TCC Name: TCC_107_PNL_CR2HMP1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_EMERG C - LS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 4
  STPU, (200-1200A SF) 8.000 (1200A)
  STD-I2T, (0.1 - 0.5s) 0.3 (I^s T Off)
  INST, (200-1200A STD) 10.00 (2000A)

BKR_CATHLAB - LS ATS

Manufacturer GE
Type SGLA, Spectra RMS
Frame/Model SGLA
Sensor/Trip 150.0 A
Settings Phase
  MAX

BKR_DPE LS - LSHMP1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 100.0 A
Settings Phase
  Fixed

BKR_DPE LS - LS211

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 60.0 A
Settings Phase
  Fixed

BKR_DPE LS - LS2G1

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 60.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram (right side):
- BKR_EMERG C - LS
- CBL-0062
- BKR_CATHLAB - LS ATS
- CBL-0124
- _ATS_LS [C]
- ATS_LS [C]
- CBL-0063
- PNL_DPE LS
- BKR_DPE LS - LS2G1
- BKR_DPE LS - LS211
- BKR_DPE LS - LSHMP1

TCC Name: TCC_108_PNL_DPE LS
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

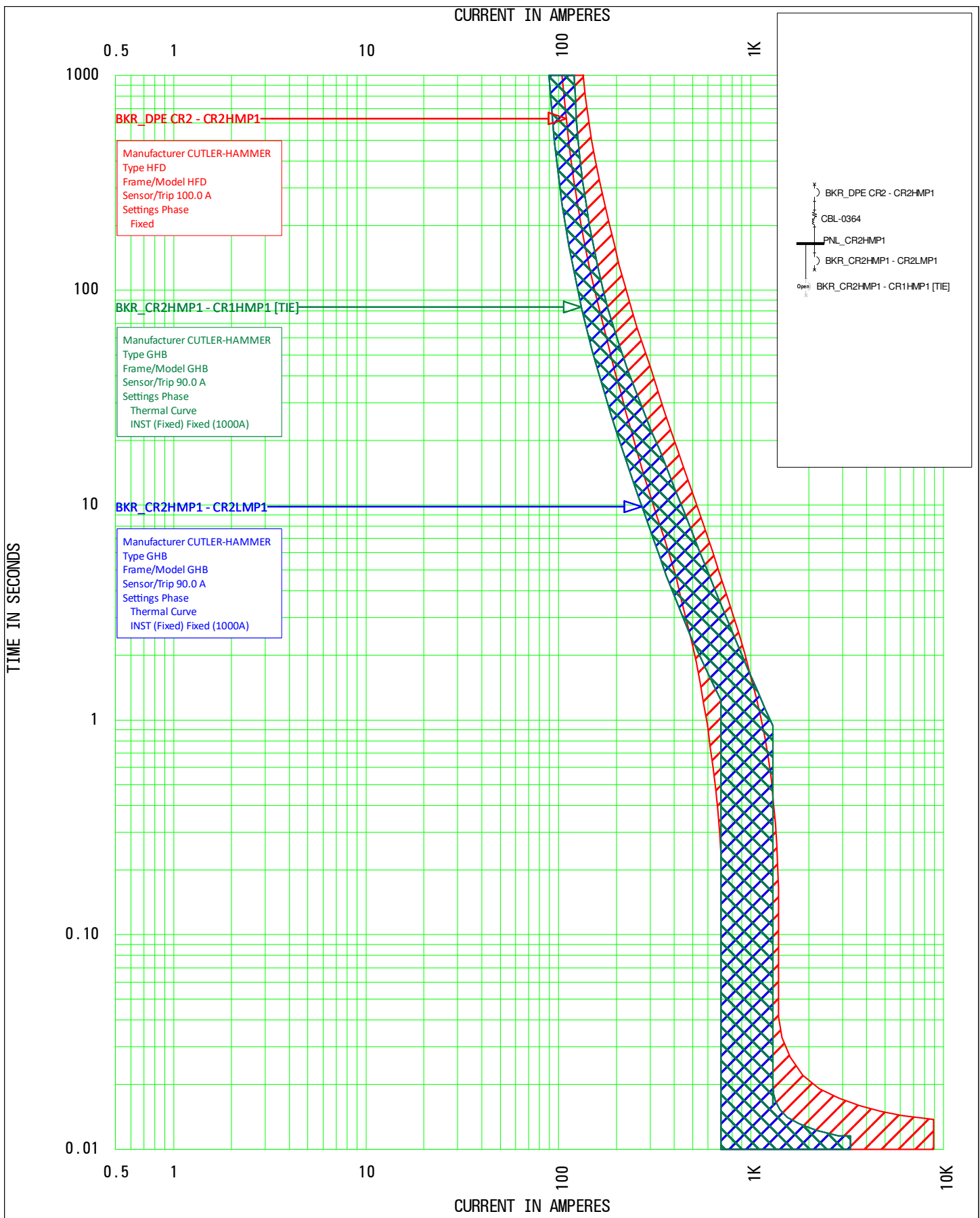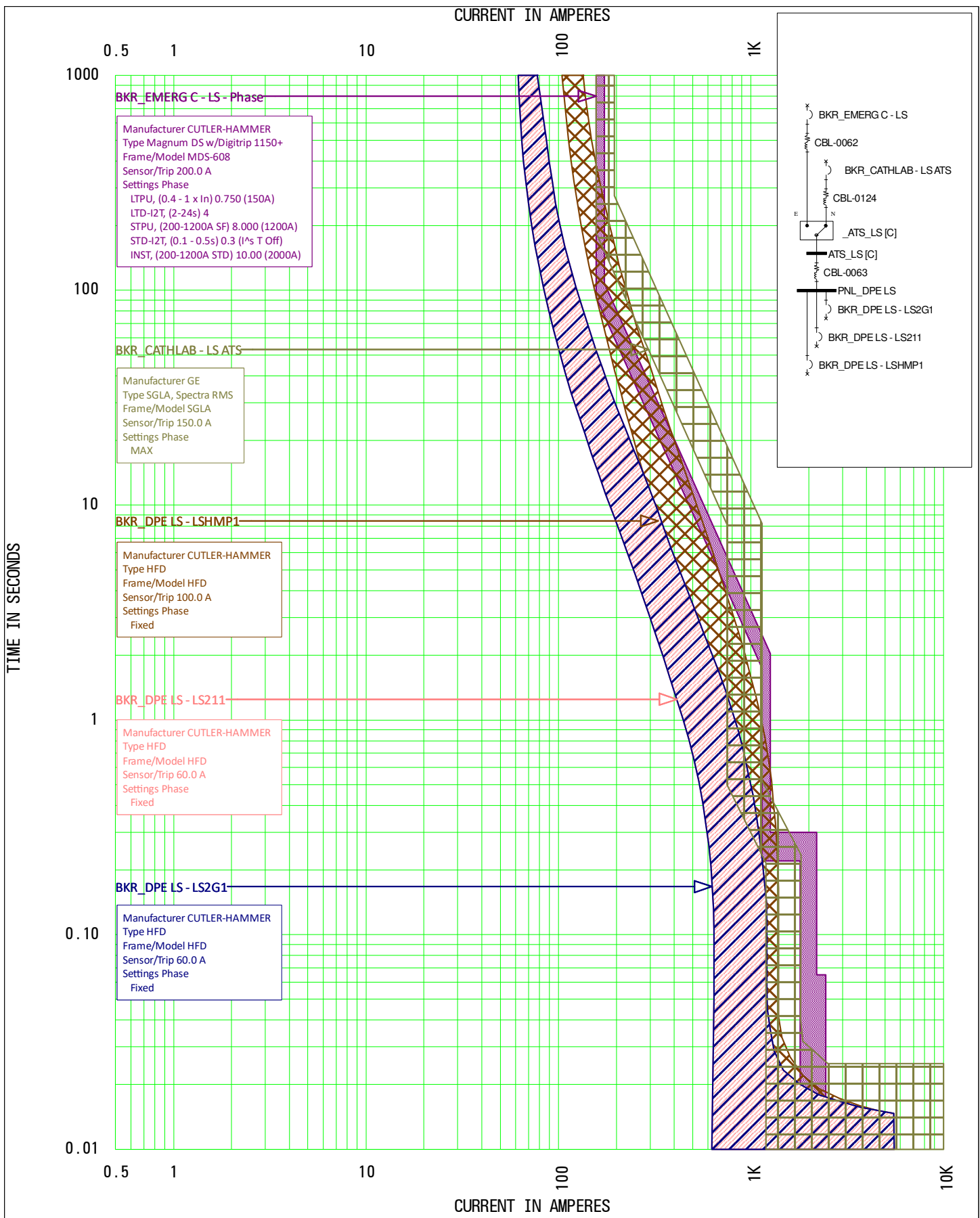**CURRENT IN AMPERES**

BKR_MDPE - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS, RMS 520
Frame/Model MDS-616
Sensor/Trip 1200.0 A
Settings Phase
 LTPU (0.4-1.0 x P) 0.7 (840A)
 LTD (2-24 Sec.) 20
 STPU (2-10 x LTPU) 4 (3360A)
 STD (0.1-0.5 Sec.) 0.4 (I^s T On)
 INST (2-14 x P) 6 (7200A)

BKR_MDPE - EMERG SW#3 TIE - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 1 (800A)
 LTD, (2-24 Sec.) 24
 STPU, (2-10 x Ir) 10 (8000A)
 STD, (0.1-0.5 Sec.) 0.4 (I^s T Off)
 INST, (2-12 x P) 10 (8000A)

BKR_MDPE - ATS CB2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.5 (400A)
 LTD, (2-24 Sec.) 4
 STPU, (2-10 x Ir) 5 (2000A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_MDPE - ATS CB1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.5 (400A)
 LTD, (2-24 Sec.) 4
 STPU, (2-10 x Ir) 5 (2000A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_MDPE - ATS CB3 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.75 (150A)
 LTD, (2-24 Sec.) 20
 STPU, (2-10 x Ir) 8 (1200A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_MDPE - ATS CB4 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.75 (150A)
 LTD, (2-24 Sec.) 15
 STPU, (2-10 x Ir) 8 (1200A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) OFF

BKR_MDPE - ATS BOILER [E] - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 1 (400A)
 LTD, (2-24 Sec.) 2
 STPU, (2-10 x Ir) 4 (1600A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) 2 (800A)

BKR_MDPE - ATS LS - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
 LTPU, (0.5-1.0 x P) 0.75 (150A)
 LTD, (2-24 Sec.) 15
 STPU, (2-10 x Ir) 10 (1500A)
 STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
 INST, (2-12 x P) OFF

TIME IN SECONDS

CURRENT IN AMPERES

Legend:
BKR_MDPE - MAIN
SWGR_MDPE [DAHOD]
BKR_MDPE - EMERG SW#3 TIE
BKR_MDPE - ATS LS
BKR_MDPE - ATS BOILER[E]
BKR_MDPE - ATS CB4
BKR_MDPE - ATS CB3
BKR_MDPE - ATS CB1
BKR_MDPE - ATS CB2

TCC Name: TCC_109_SWGR_MDPE [DAHOD]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
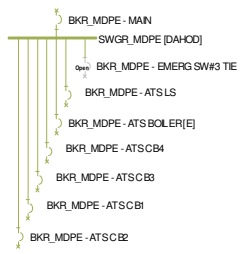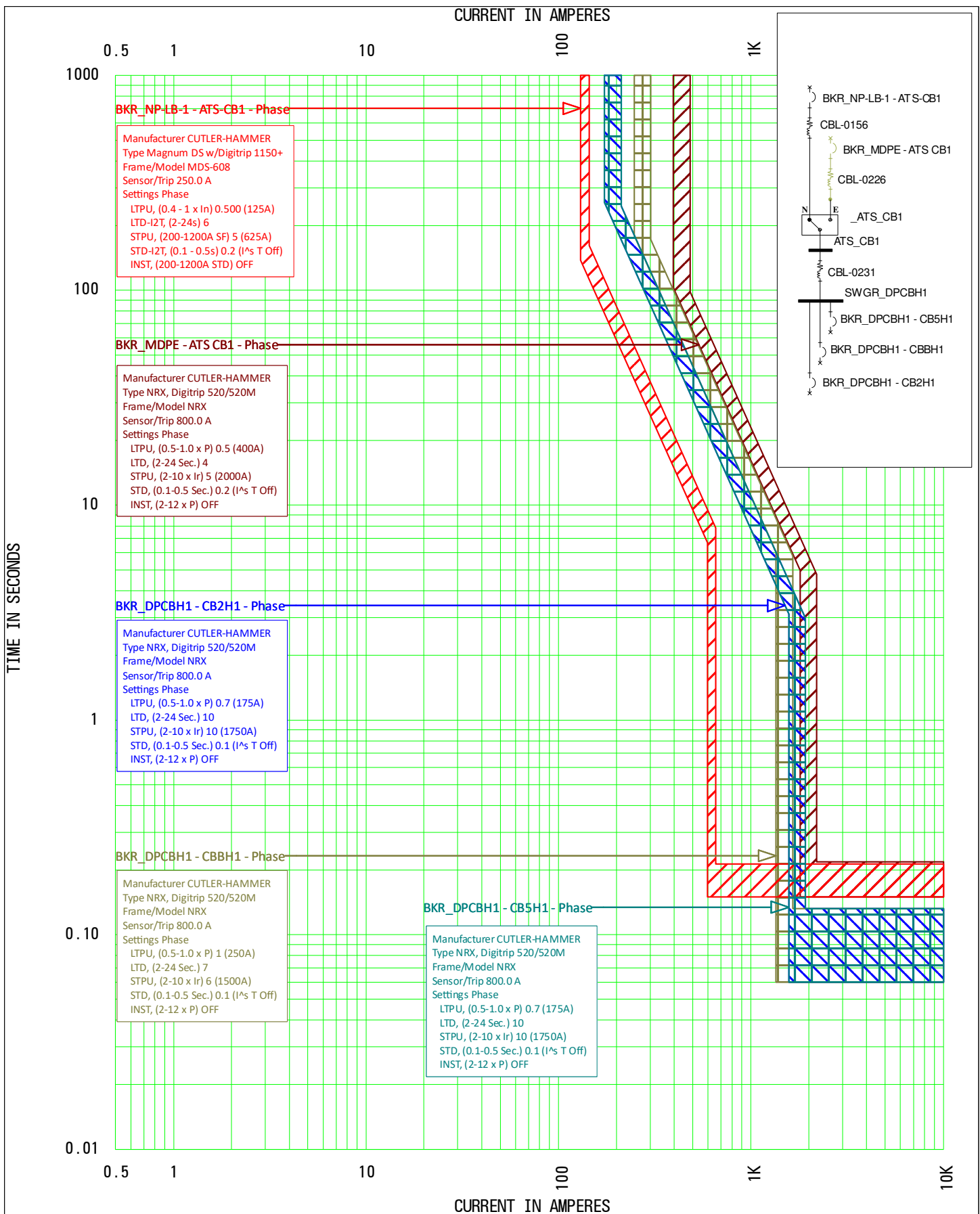Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
   LTPU, (0.4 - 1 x In) 0.500 (125A)
   LTD-I2T, (2-24s) 6
   STPU, (200-1200A SF) 5 (625A)
   STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
   INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.5 (400A)
   LTD, (2-24 Sec.) 4
   STPU, (2-10 x Ir) 5 (2000A)
   STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_DPCBH1 - CB2H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.7 (175A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 10 (1750A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_DPCBH1 - CBBH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 1 (250A)
   LTD, (2-24 Sec.) 7
   STPU, (2-10 x Ir) 6 (1500A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_DPCBH1 - CB5H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.7 (175A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 10 (1750A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

TIME IN SECONDS

One-line diagram labels:
- BKR_NP-LB-1 - ATS-CB1
- CBL-0156
- BKR_MDPE - ATS CB1
- CBL-0226
- _ATS_CB1
- ATS_CB1
- CBL-0231
- SWGR_DPCBH1
- BKR_DPCBH1 - CB5H1
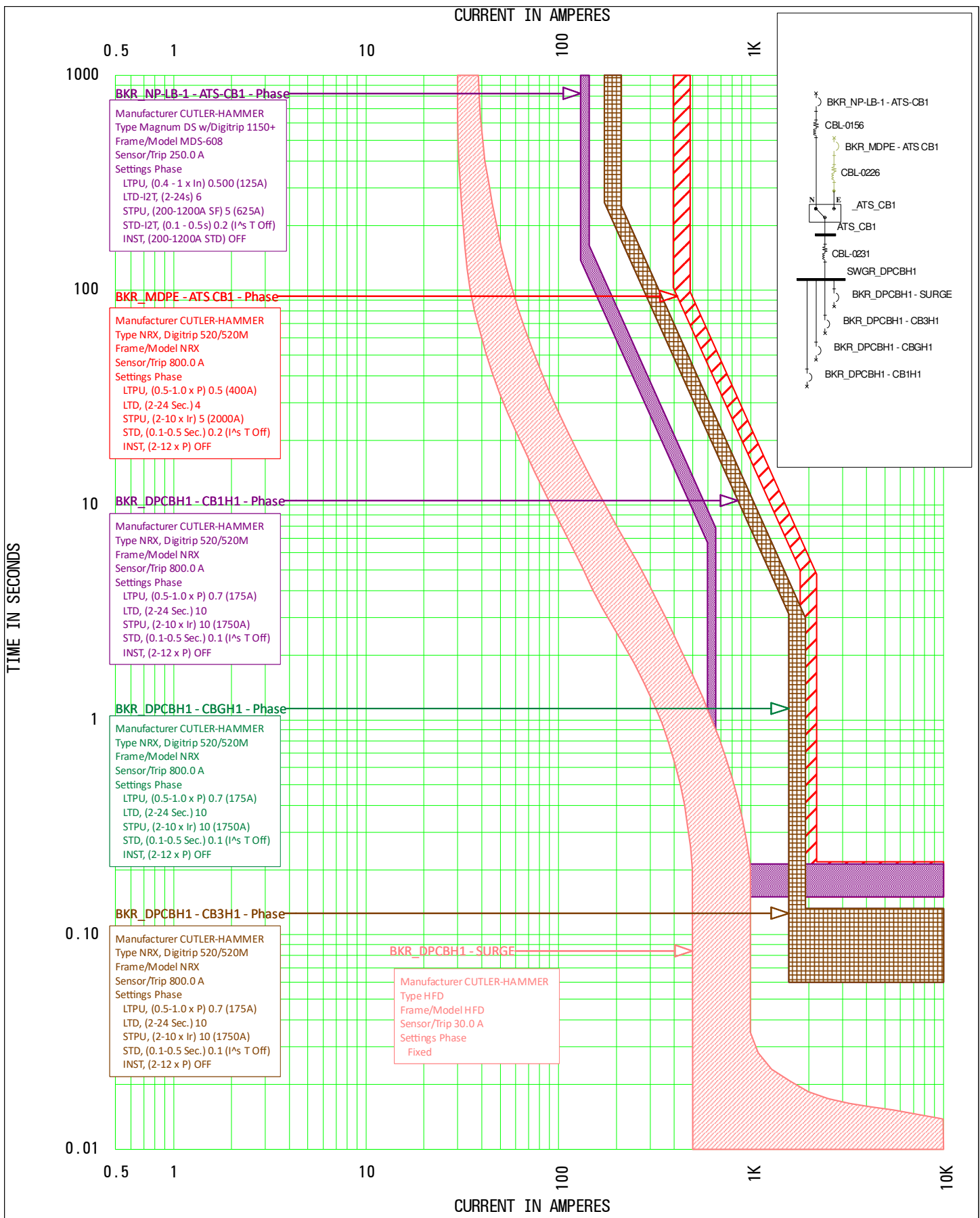- BKR_DPCBH1 - CBBH1
- BKR_DPCBH1 - CB2H1

CURRENT IN AMPERES

TCC Name: TCC_110-1_SWGR_DPCBH1
Project #810133
Base Project
Current Scale x 1
Reference Voltage: 480V
Lowell General Hospital
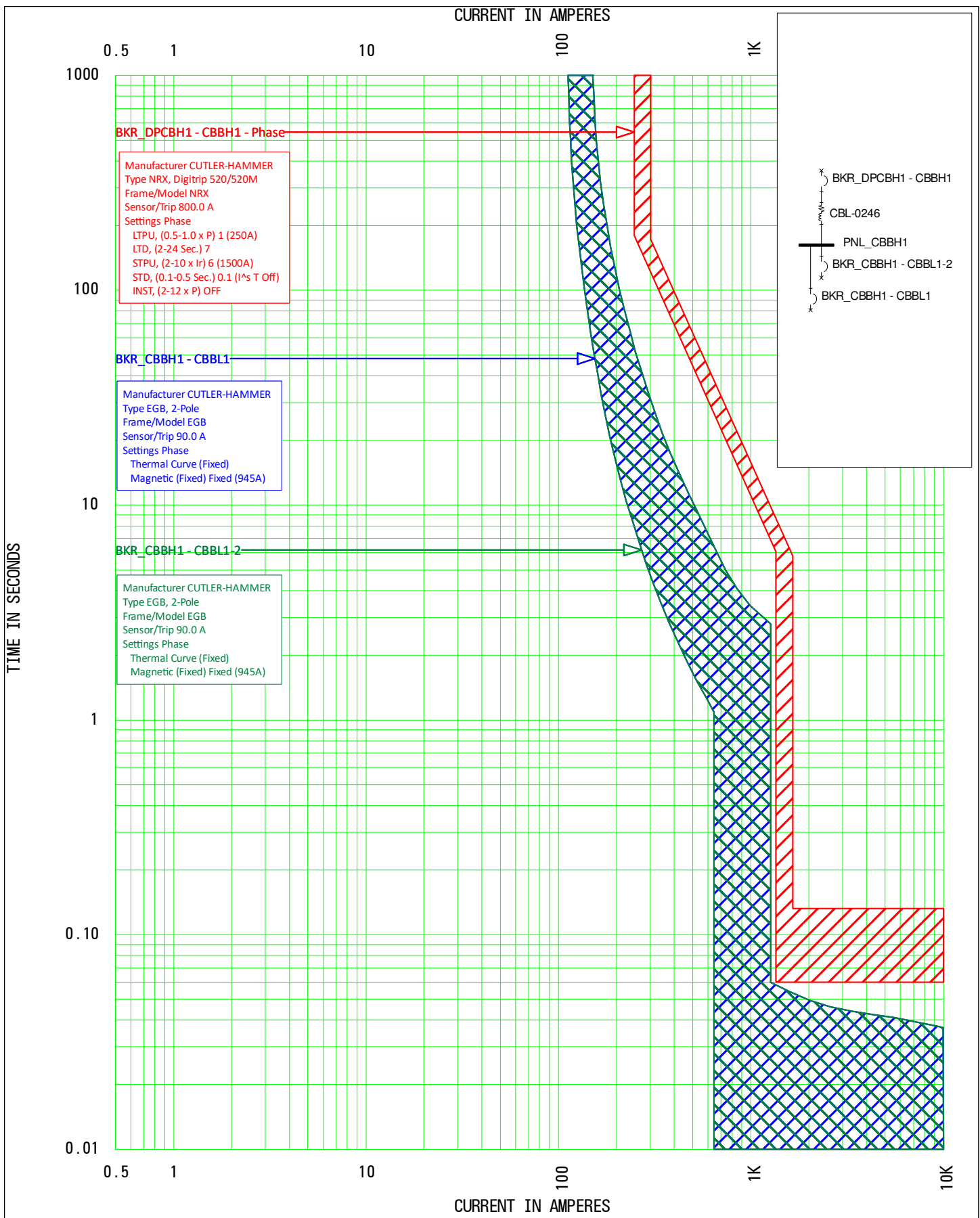Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB1 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (125A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 5 (625A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (400A)
  LTD, (2-24 Sec.) 4
  STPU, (2-10 x Ir) 5 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - CB1H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - CBGH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - CB3H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH1 - SURGE

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-1 - ATS-CB1
CBL-0156
BKR_MDPE - ATS CB1
CBL-0226
_ATS_CB1
ATS_CB1
CBL-0231
SWGR_DPCBH1
BKR_DPCBH1 - SURGE
BKR_DPCBH1 - CB3H1
BKR_DPCBH1 - CBGH1
BKR_DPCBH1 - CB1H1

TCC Name: TCC_110-2_SWGR_DPCBH1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
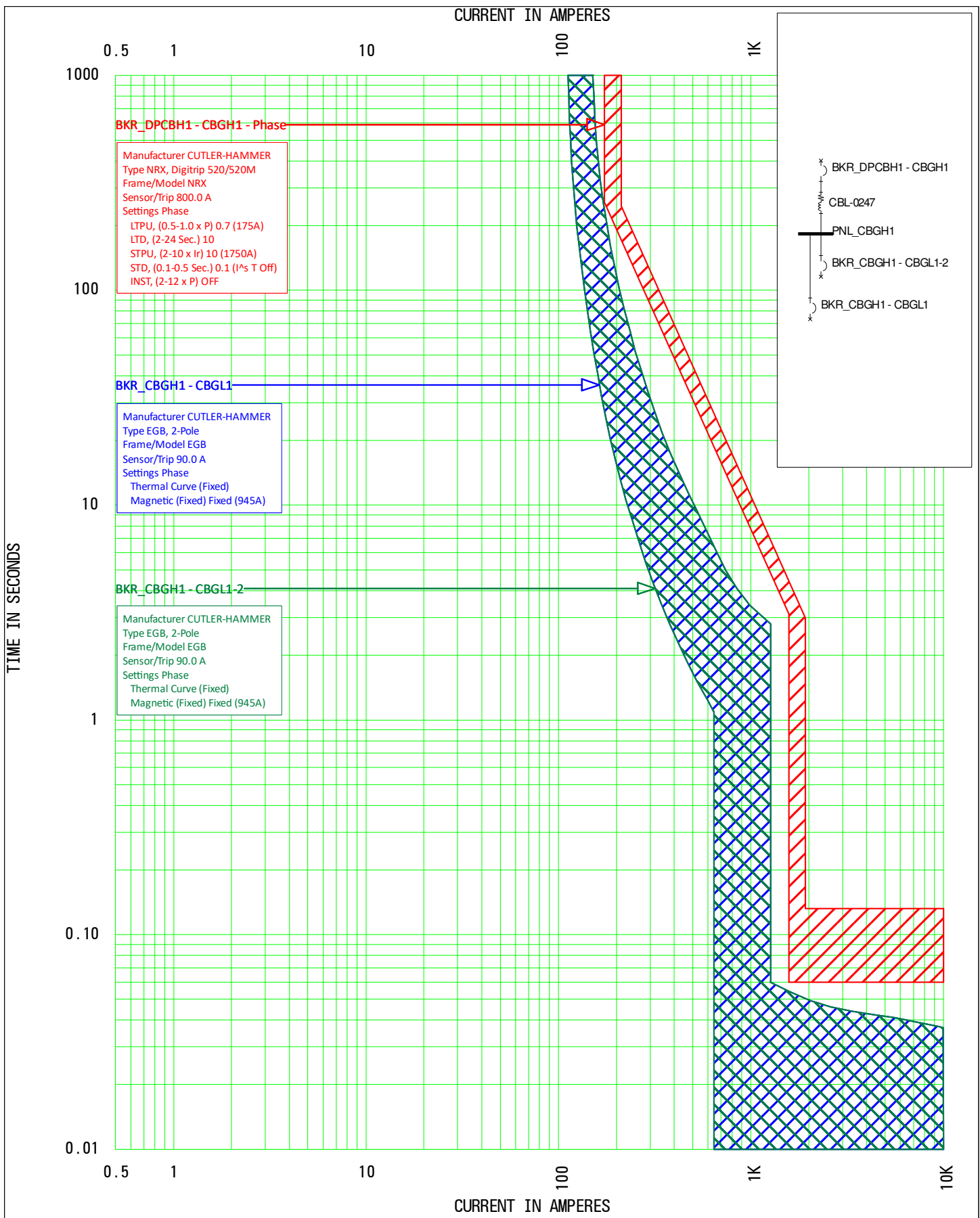Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CBGH1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CBGH1 - CBGL1

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CBGH1 - CBGL1-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CBGH1

CBL-0247

PNL_CBGH1

BKR_CBGH1 - CBGL1-2

BKR_CBGH1 - CBGL1

TCC Name: TCC_112_PNL_CBGH1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
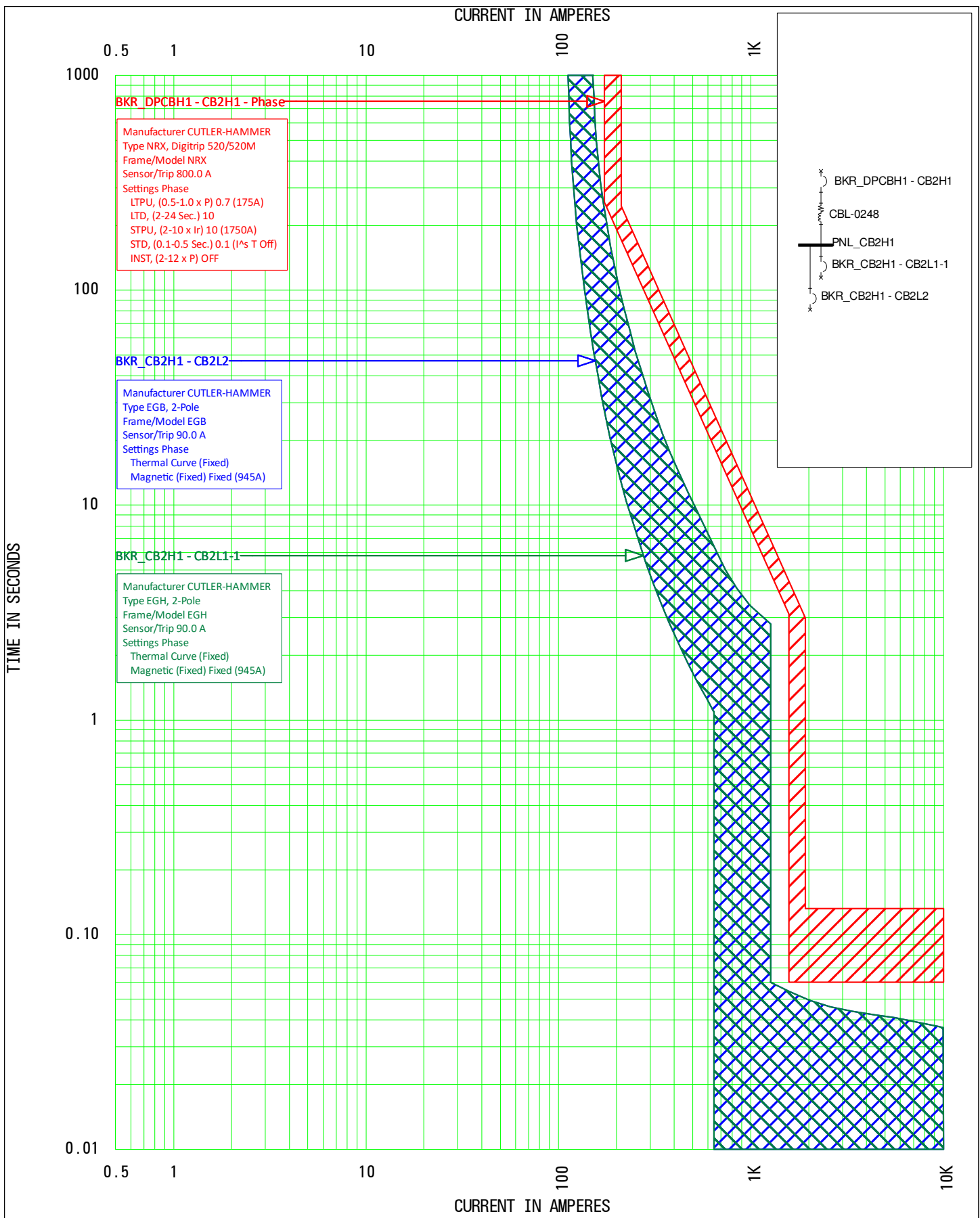Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB2H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB2H1 - CB2L2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB2H1 - CB2L1-1

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB2H1
CBL-0248
PNL_CB2H1
BKR_CB2H1 - CB2L1-1
BKR_CB2H1 - CB2L2

TCC Name: TCC_113_PNL_CB2H1
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
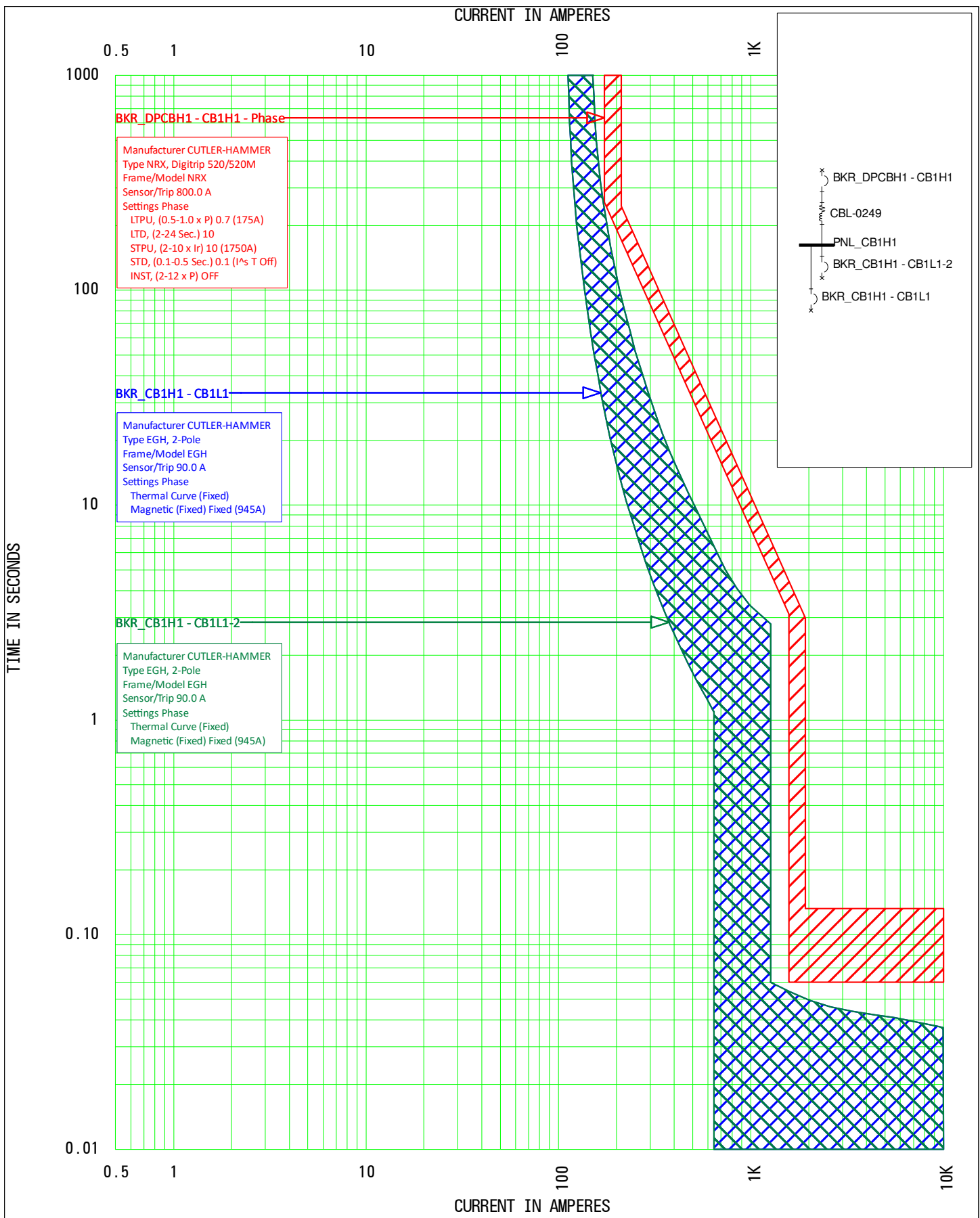Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB1H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
    LTPU, (0.5-1.0 x P) 0.7 (175A)
    LTD, (2-24 Sec.) 10
    STPU, (2-10 x Ir) 10 (1750A)
    STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
    INST, (2-12 x P) OFF

BKR_CB1H1 - CB1L1

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

BKR_CB1H1 - CB1L1-2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB1H1
CBL-0249
PNL_CB1H1
BKR_CB1H1 - CB1L1-2
BKR_CB1H1 - CB1L1

TCC Name: TCC_114_PNL_CB1H1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
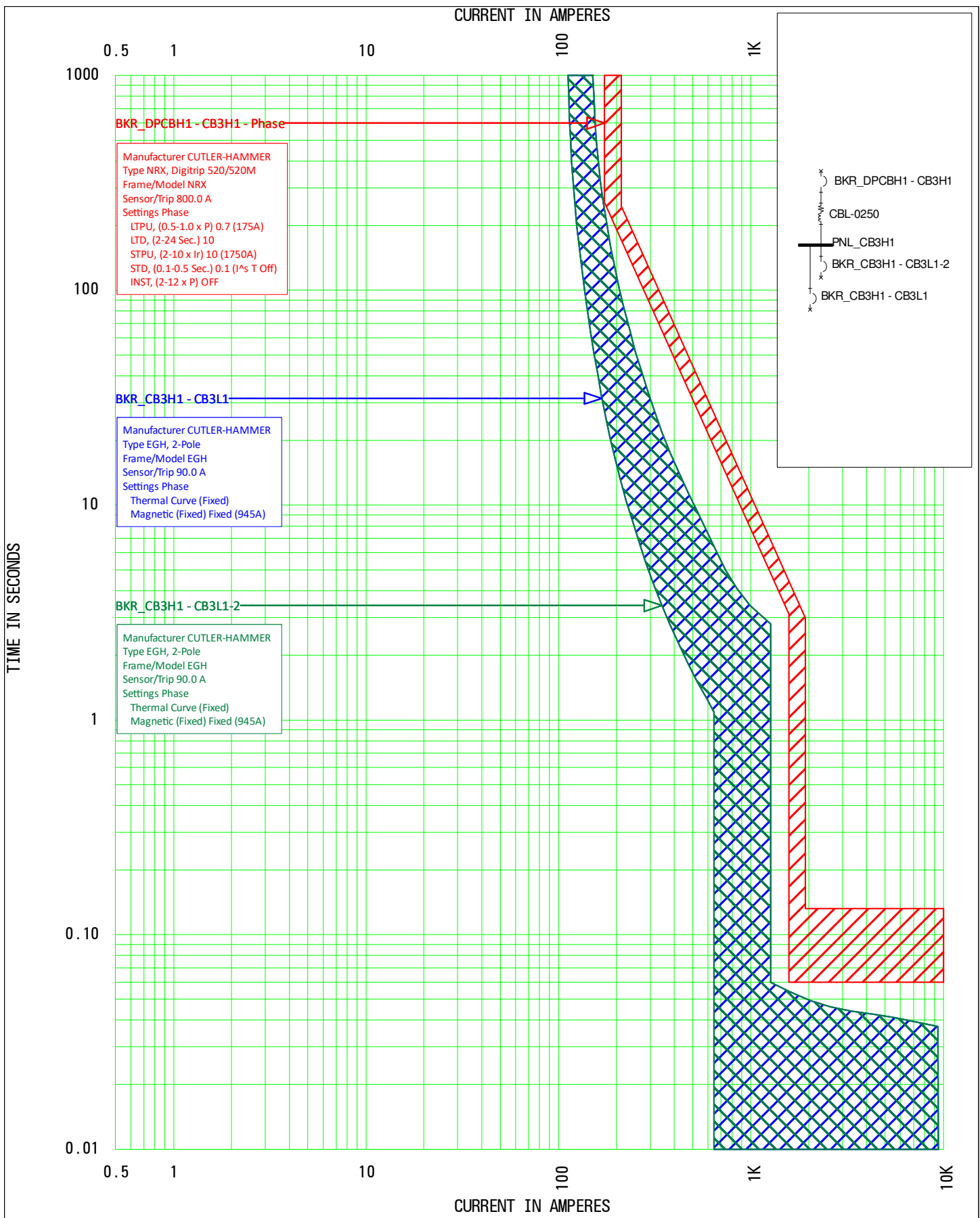Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB3H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB3H1 - CB3L1

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB3H1 - CB3L1-2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB3H1
CBL-0250
PNL_CB3H1
BKR_CB3H1 - CB3L1-2
BKR_CB3H1 - CB3L1

TCC Name: TCC_115_PNL_CB3H1
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
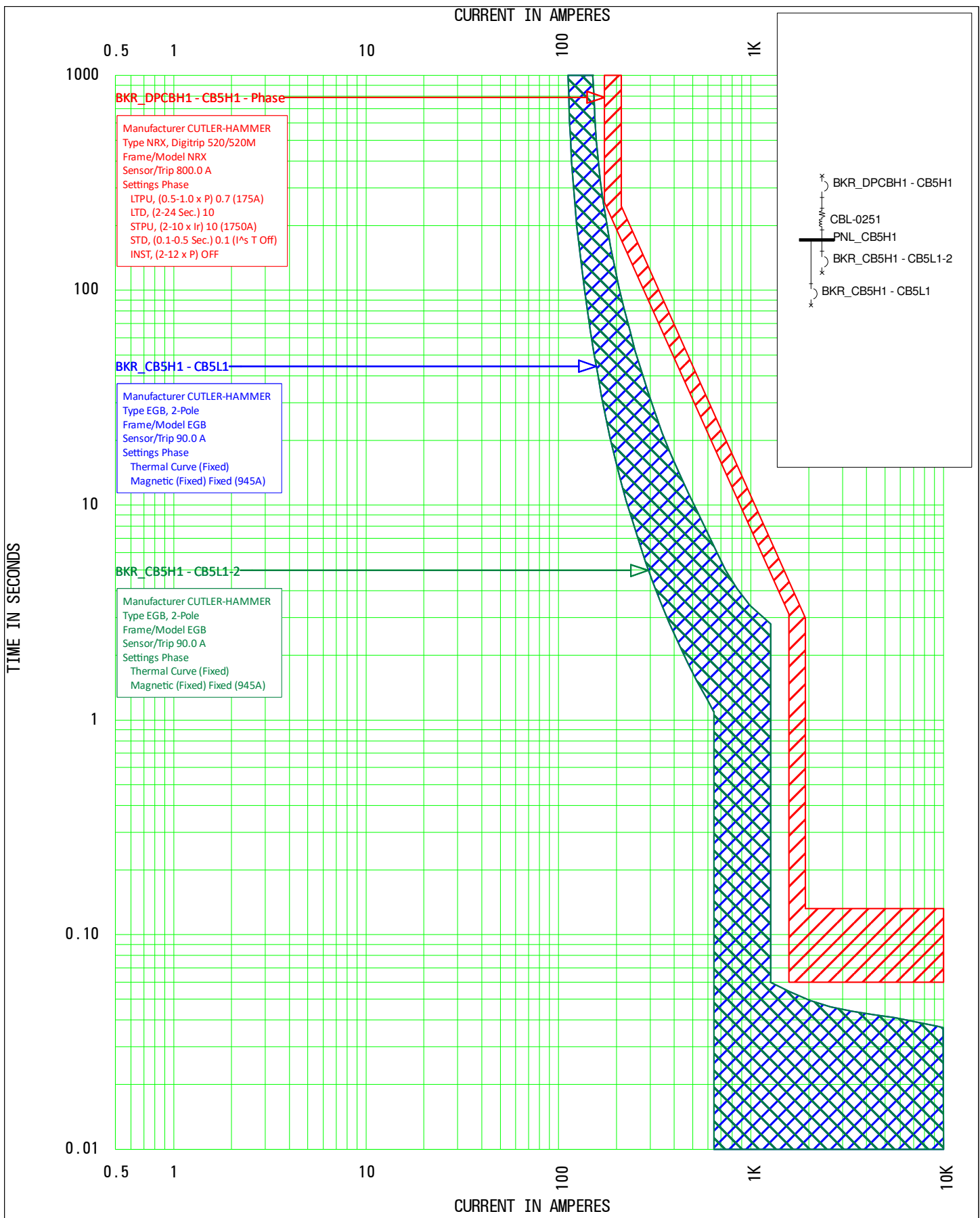Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH1 - CB5H1 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.7 (175A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 10 (1750A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_CB5H1 - CB5L1

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_CB5H1 - CB5L1-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH1 - CB5H1
CBL-0251
PNL_CB5H1
BKR_CB5H1 - CB5L1-2
BKR_CB5H1 - CB5L1

TCC Name: TCC_116_PNL_CB5H1
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
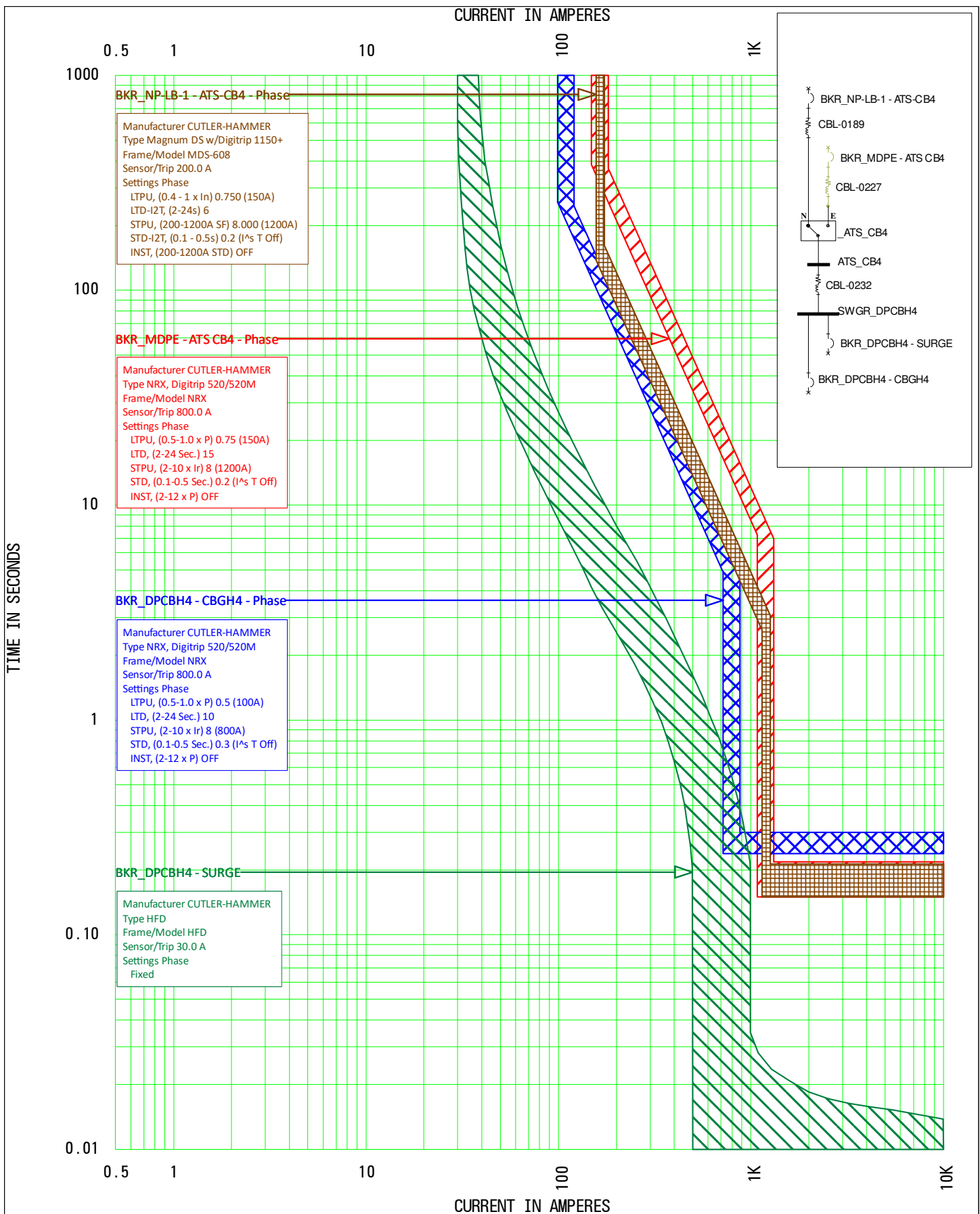Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB4 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 8.000 (1200A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB4 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 15
  STPU, (2-10 x Ir) 8 (1200A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH4 - CBGH4 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (100A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (800A)
  STD, (0.1-0.5 Sec.) 0.3 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH4 - SURGE

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-CB4
CBL-0189
BKR_MDPE - ATS CB4
CBL-0227
N   E
_ATS_CB4
ATS_CB4
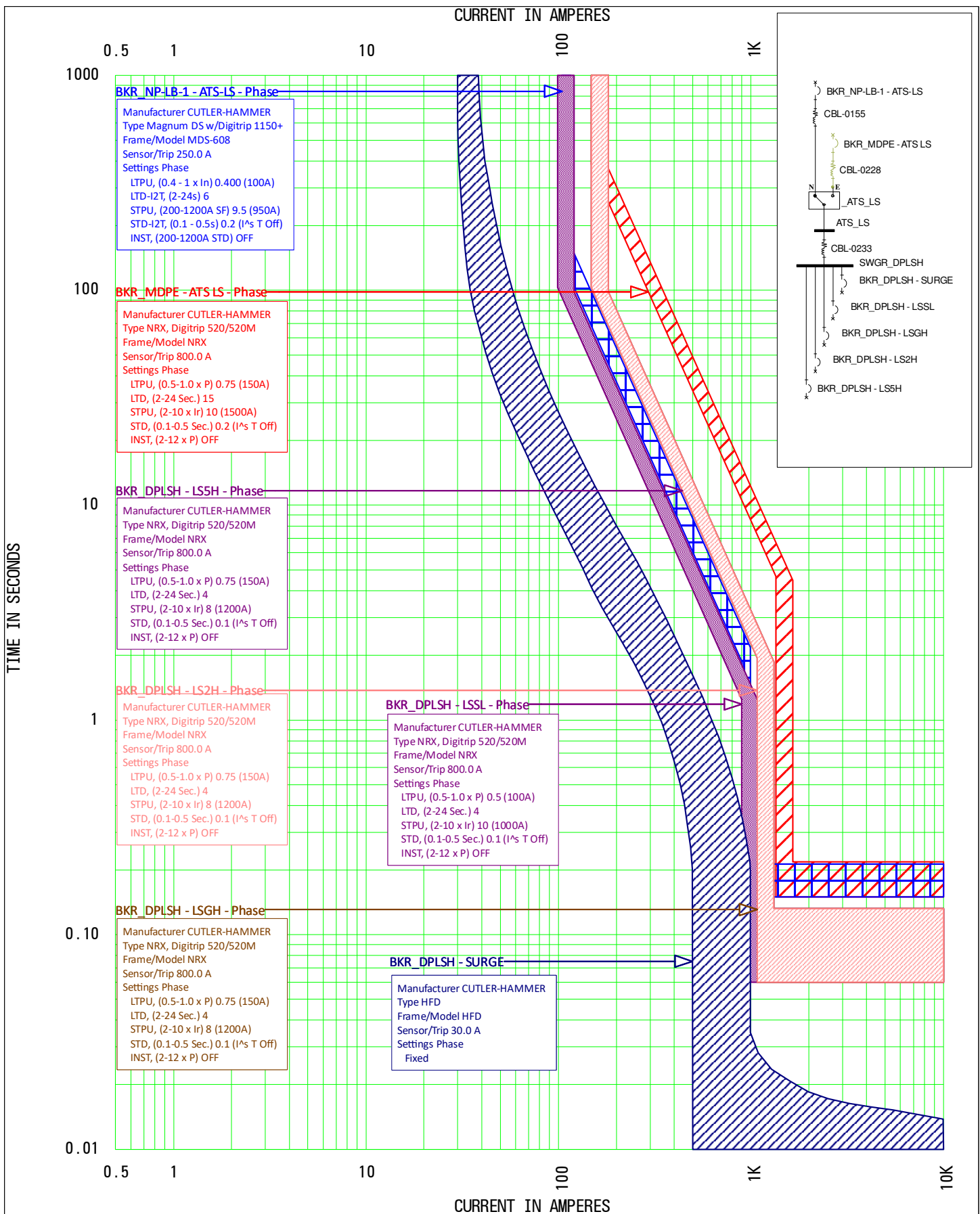CBL-0232
SWGR_DPCBH4
BKR_DPCBH4 - SURGE
BKR_DPCBH4 - CBGH4

TCC Name: TCC_117_SWGR_DPCBH4
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-1 - ATS-LS - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 250.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.400 (100A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 9.5 (950A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS LS - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 15
  STPU, (2-10 x Ir) 10 (1500A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPLSH - LS5H - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 4
  STPU, (2-10 x Ir) 8 (1200A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPLSH - LS2H - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 4
  STPU, (2-10 x Ir) 8 (1200A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPLSH - LSSL - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (100A)
  LTD, (2-24 Sec.) 4
  STPU, (2-10 x Ir) 10 (1000A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPLSH - LSGH - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 4
  STPU, (2-10 x Ir) 8 (1200A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPLSH - SURGE - Phase

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
BKR_NP-LB-1 - ATS-LS
CBL-0155
BKR_MDPE - ATS LS
CBL-0228
ATS_LS
ATS_LS
CBL-0233
SWGR_DPLSH
BKR_DPLSH - SURGE
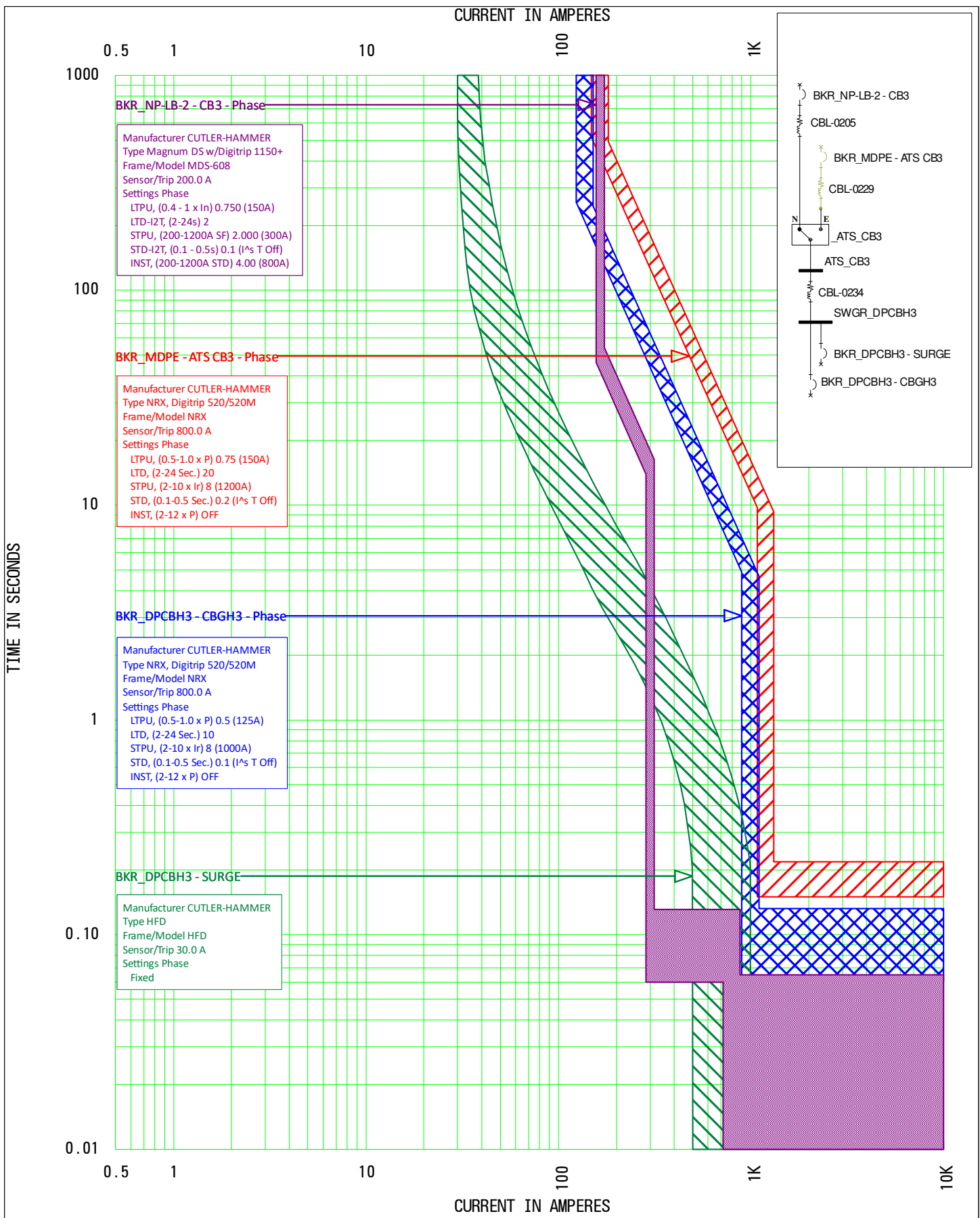BKR_DPLSH - LSSL
BKR_DPLSH - LSGH
BKR_DPLSH - LS2H
BKR_DPLSH - LS5H

TCC Name: TCC_118_SWGR_DPLSH
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-2 - CB3 - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 200.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.750 (150A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 2.000 (300A)
  STD-I2T, (0.1 - 0.5s) 0.1 (I^s T Off)
  INST, (200-1200A STD) 4.00 (800A)

BKR_MDPE - ATS CB3 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.75 (150A)
  LTD, (2-24 Sec.) 20
  STPU, (2-10 x Ir) 8 (1200A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH3 - CBGH3 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (125A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 8 (1000A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH3 - SURGE

Manufacturer CUTLER-HAMMER
Type HFD
Frame/Model HFD
Sensor/Trip 30.0 A
Settings Phase
  Fixed

TIME IN SECONDS

CURRENT IN AMPERES

BKR_NP-LB-2 - CB3
CBL-0205
BKR_MDPE - ATS CB3
CBL-0229
N   E
ATS_CB3
ATS_CB3
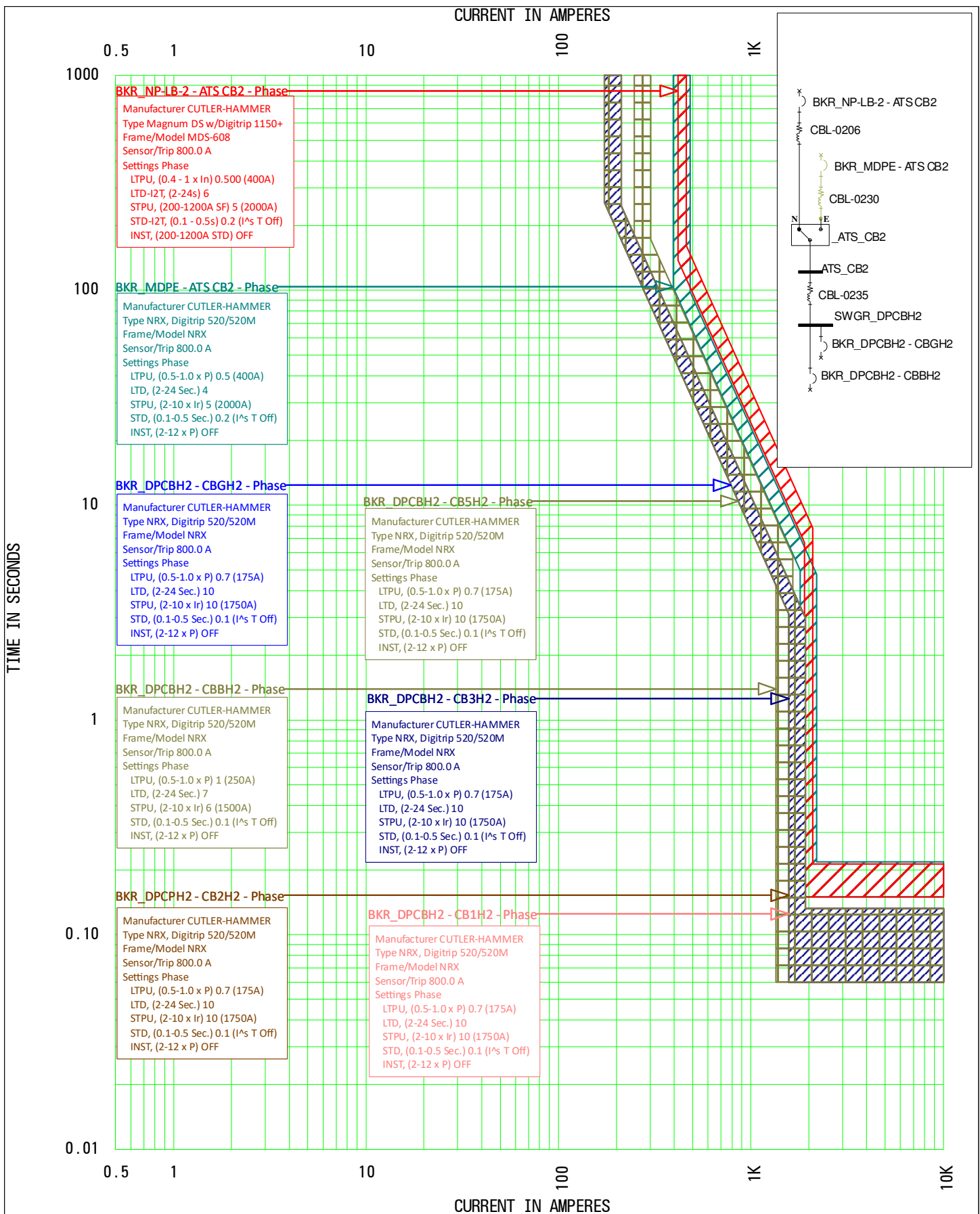CBL-0234
SWGR_DPCBH3
BKR_DPCBH3 - SURGE
BKR_DPCBH3 - CBGH3

TCC Name: TCC_119_SWGR_DPC BH3
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus
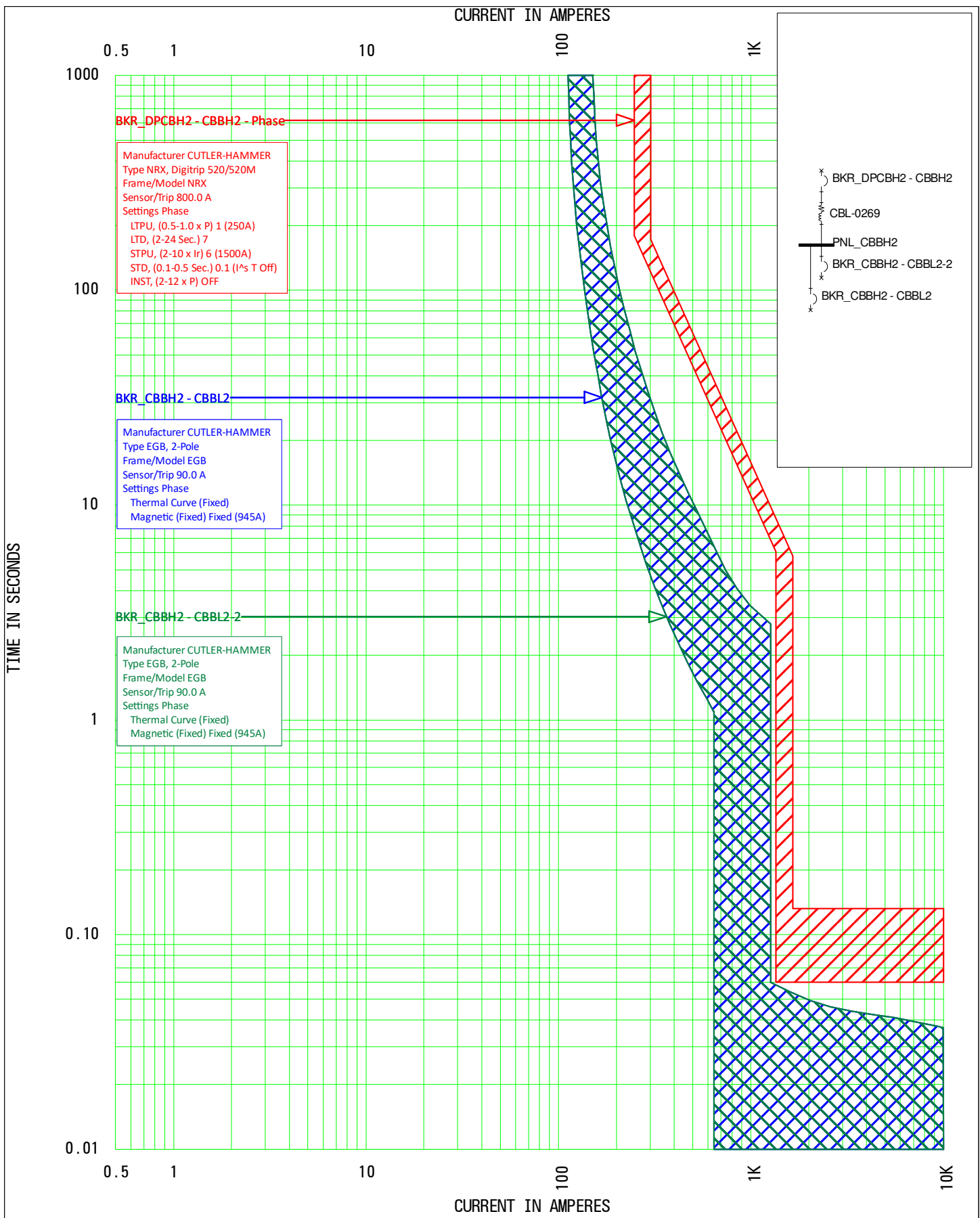
CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_NP-LB-2 - ATS CB2 - Phase
Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-608
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 0.500 (400A)
  LTD-I2T, (2-24s) 6
  STPU, (200-1200A SF) 5 (2000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) OFF

BKR_MDPE - ATS CB2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.5 (400A)
  LTD, (2-24 Sec.) 4
  STPU, (2-10 x Ir) 5 (2000A)
  STD, (0.1-0.5 Sec.) 0.2 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CBGH2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CB5H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CBBH2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 1 (250A)
  LTD, (2-24 Sec.) 7
  STPU, (2-10 x Ir) 6 (1500A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CB3H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCPH2 - CB2H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_DPCBH2 - CB1H2 - Phase
Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

Single-line diagram labels:
BKR_NP-LB-2 - ATS CB2
CBL-0206
BKR_MDPE - ATS CB2
CBL-0230
ATS_CB2
ATS_CB2
CBL-0235
SWGR_DPCBH2
BKR_DPCBH2 - CBGH2
BKR_DPCBH2 - CBBH2

TCC Name: TCC_120_SWGR_DPCBH2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
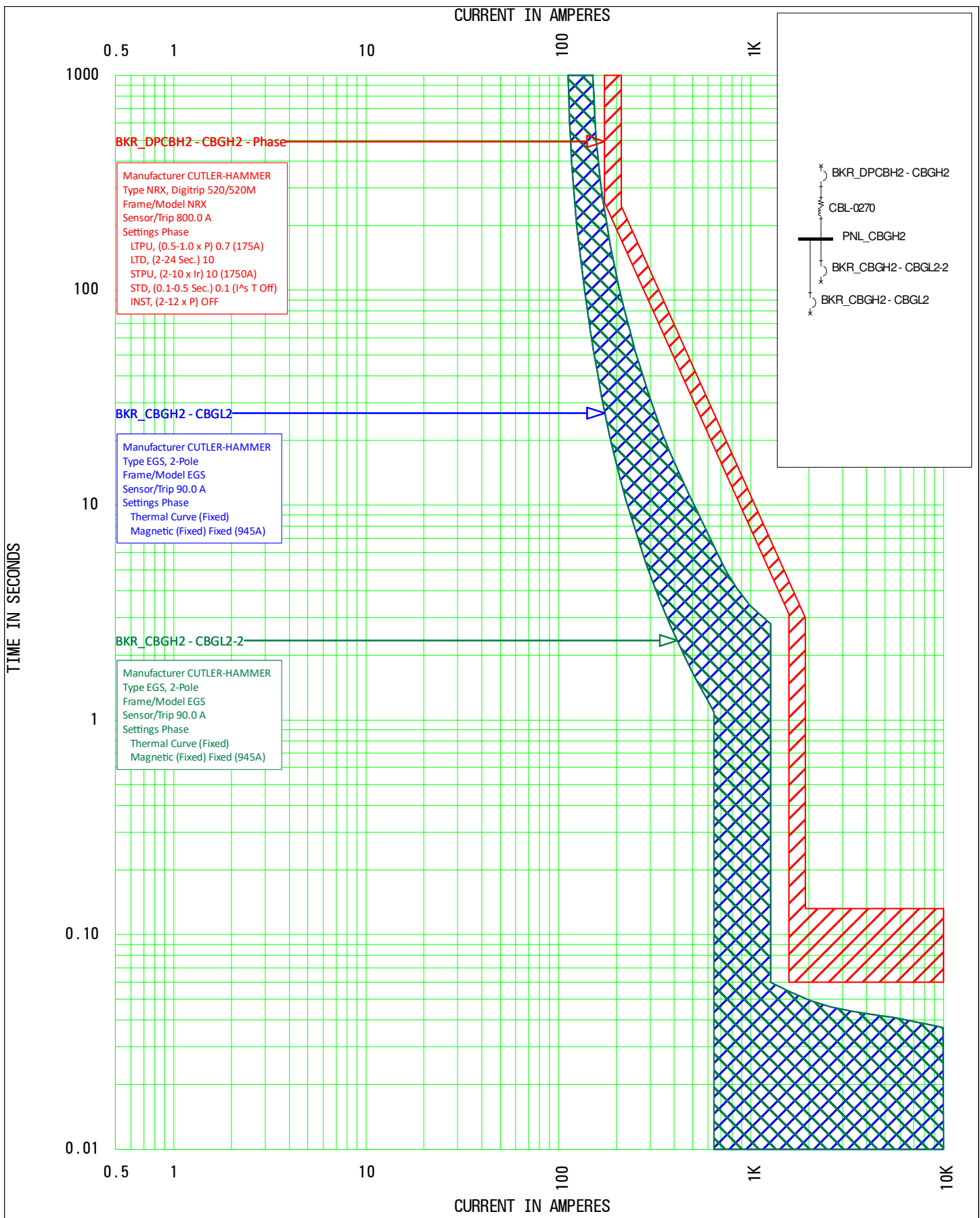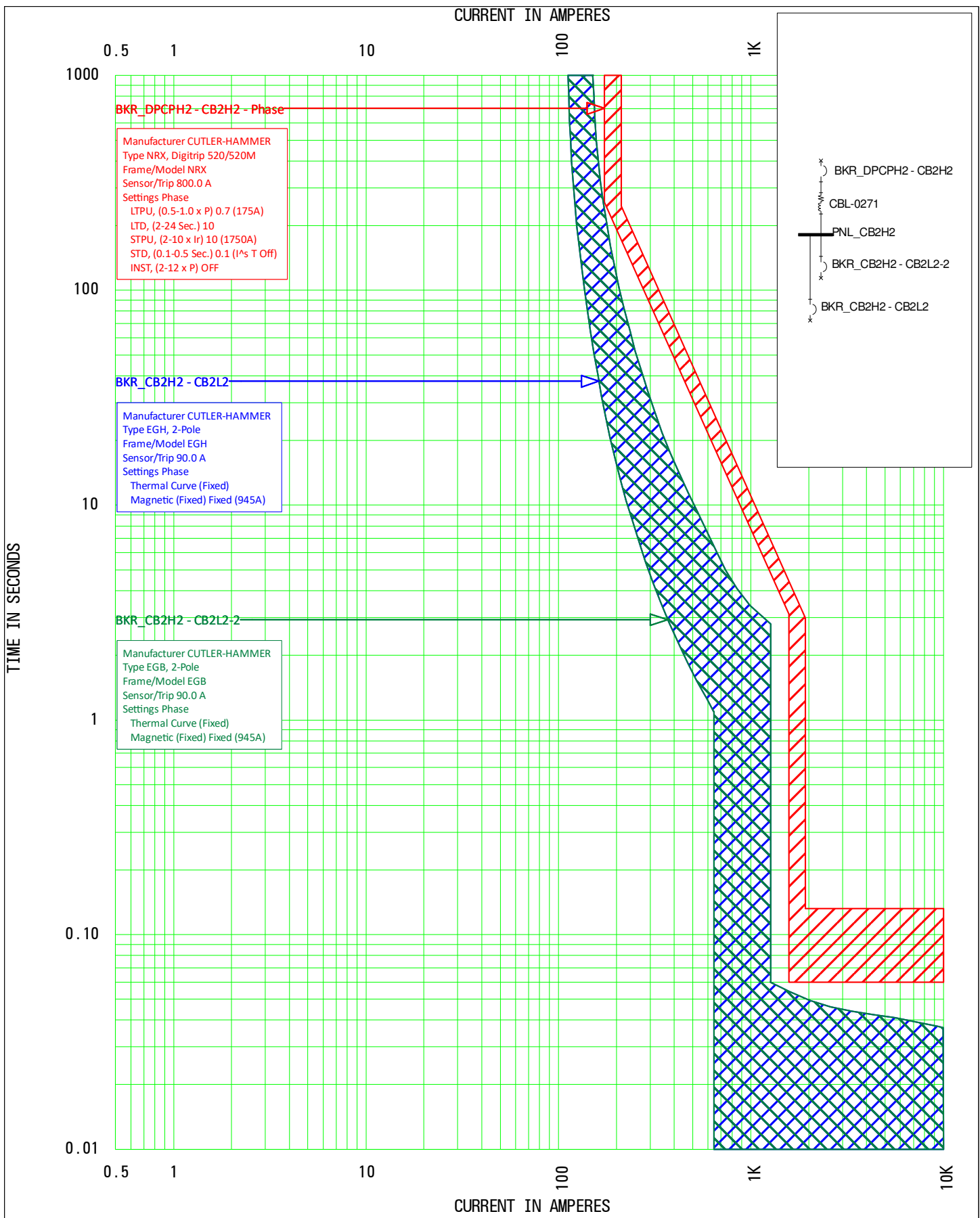Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CBBH2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
    LTPU, (0.5-1.0 x P) 1 (250A)
    LTD, (2-24 Sec.) 7
    STPU, (2-10 x Ir) 6 (1500A)
    STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
    INST, (2-12 x P) OFF

BKR_CBBH2 - CBBL2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

BKR_CBBH2 - CBBL2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
    Thermal Curve (Fixed)
    Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH2 - CBBH2

CBL-0269

PNL_CBBH2

BKR_CBBH2 - CBBL2-2

BKR_CBBH2 - CBBL2

TCC Name: TCC_121_PNL_CBBH2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
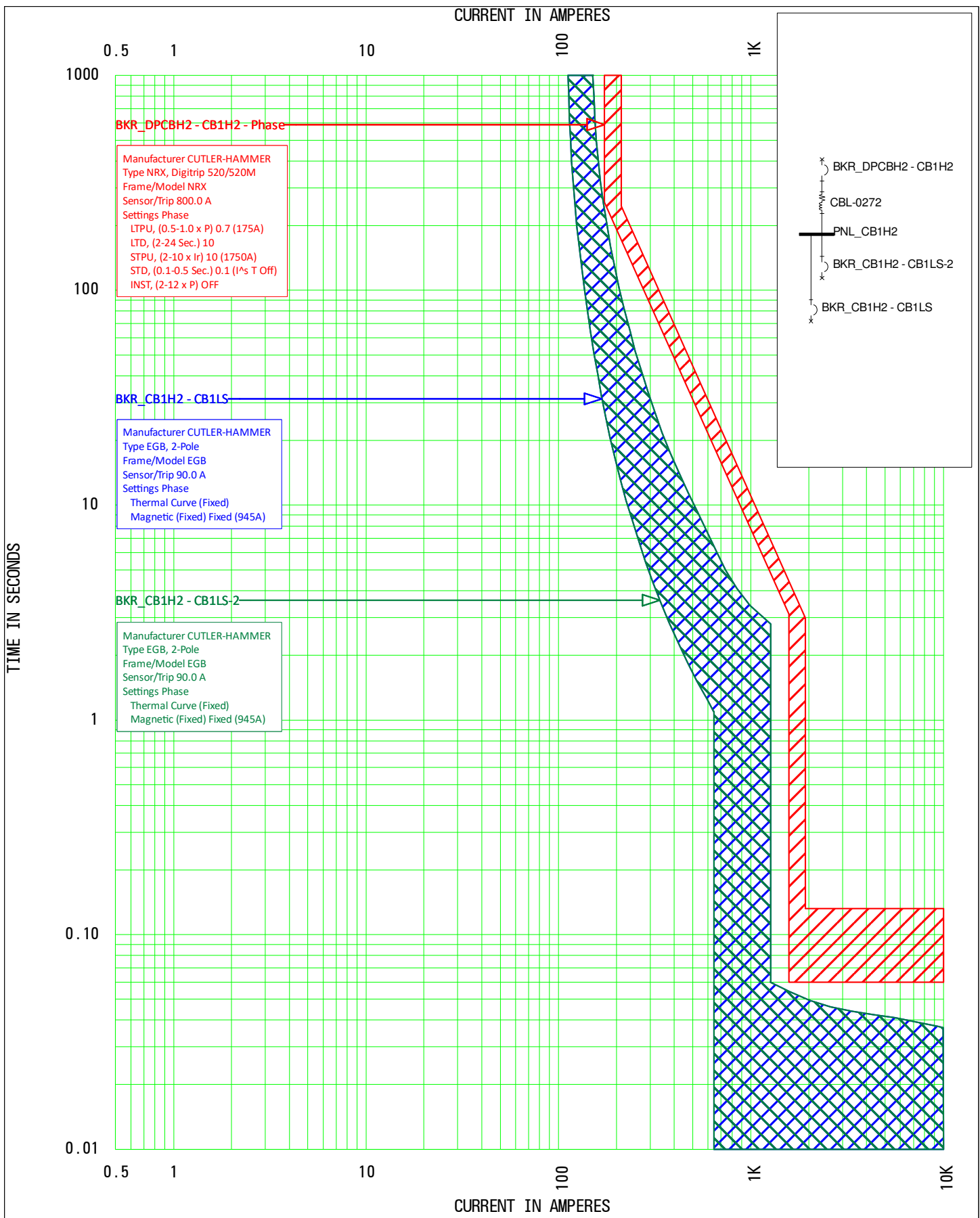Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CBGH2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CBGH2 - CBGL2

Manufacturer CUTLER-HAMMER
Type EGS, 2-Pole
Frame/Model EGS
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CBGH2 - CBGL2-2

Manufacturer CUTLER-HAMMER
Type EGS, 2-Pole
Frame/Model EGS
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram labels:
- BKR_DPCBH2 - CBGH2
- CBL-0270
- PNL_CBGH2
- BKR_CBGH2 - CBGL2-2
- BKR_CBGH2 - CBGL2

TCC Name: TCC_122_PNL_CBGH2
Project #810133
Base Project
Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
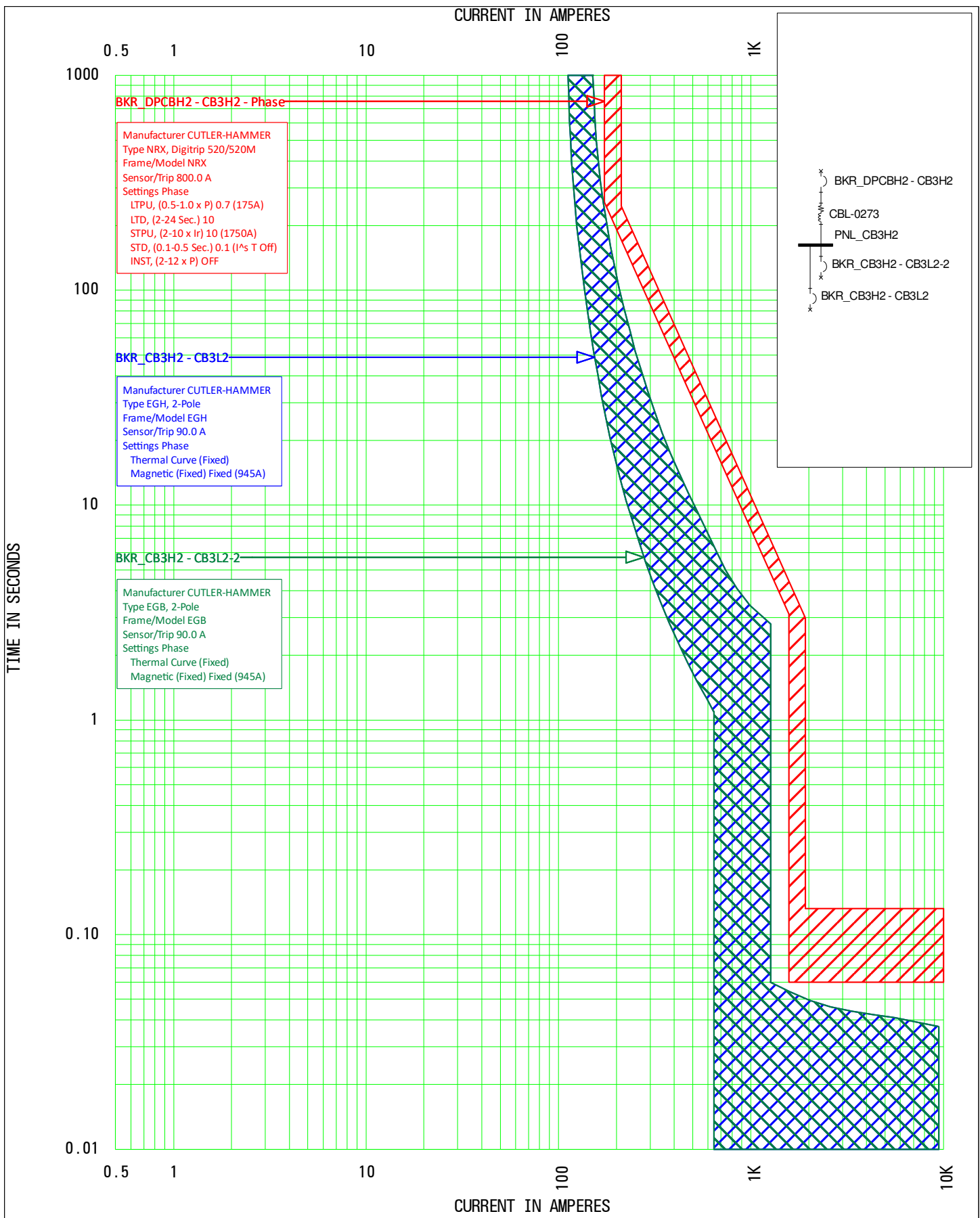Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCPH2 - CB2H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
   LTPU, (0.5-1.0 x P) 0.7 (175A)
   LTD, (2-24 Sec.) 10
   STPU, (2-10 x Ir) 10 (1750A)
   STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
   INST, (2-12 x P) OFF

BKR_CB2H2 - CB2L2

Manufacturer CUTLER-HAMMER
Type EGH, 2-Pole
Frame/Model EGH
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

BKR_CB2H2 - CB2L2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
   Thermal Curve (Fixed)
   Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCPH2 - CB2H2

CBL-0271

PNL_CB2H2

BKR_CB2H2 - CB2L2-2

BKR_CB2H2 - CB2L2

TCC Name: TCC_123_PNL_CB2H2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
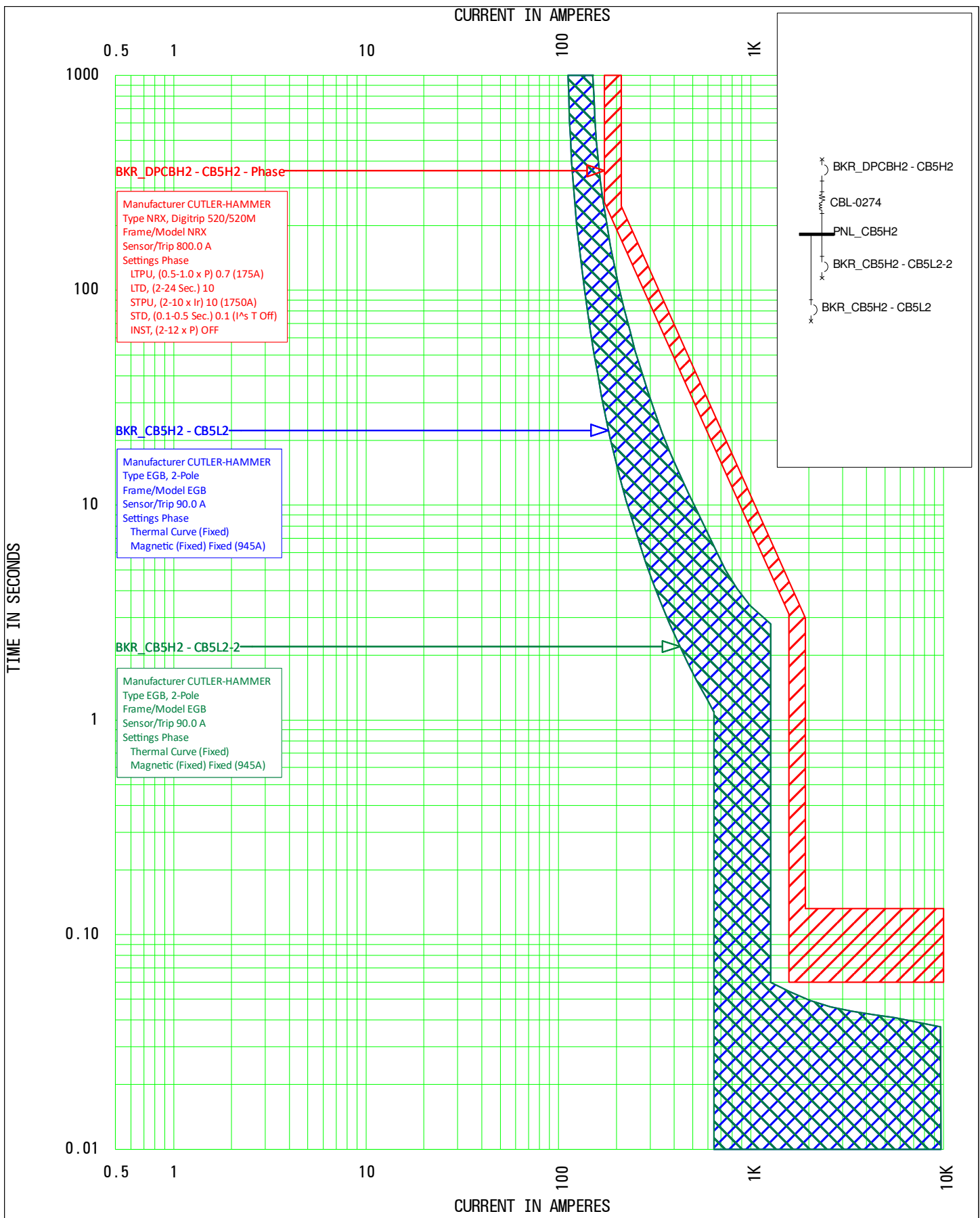Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CB1H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB1H2 - CB1LS

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB1H2 - CB1LS-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

One-line diagram:
- BKR_DPCBH2 - CB1H2
- CBL-0272
- PNL_CB1H2
- BKR_CB1H2 - CB1LS-2
- BKR_CB1H2 - CB1LS

TCC Name: TCC_124_PNL_CB1H2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

TCC Name: TCC_125_PNL_CB3H2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
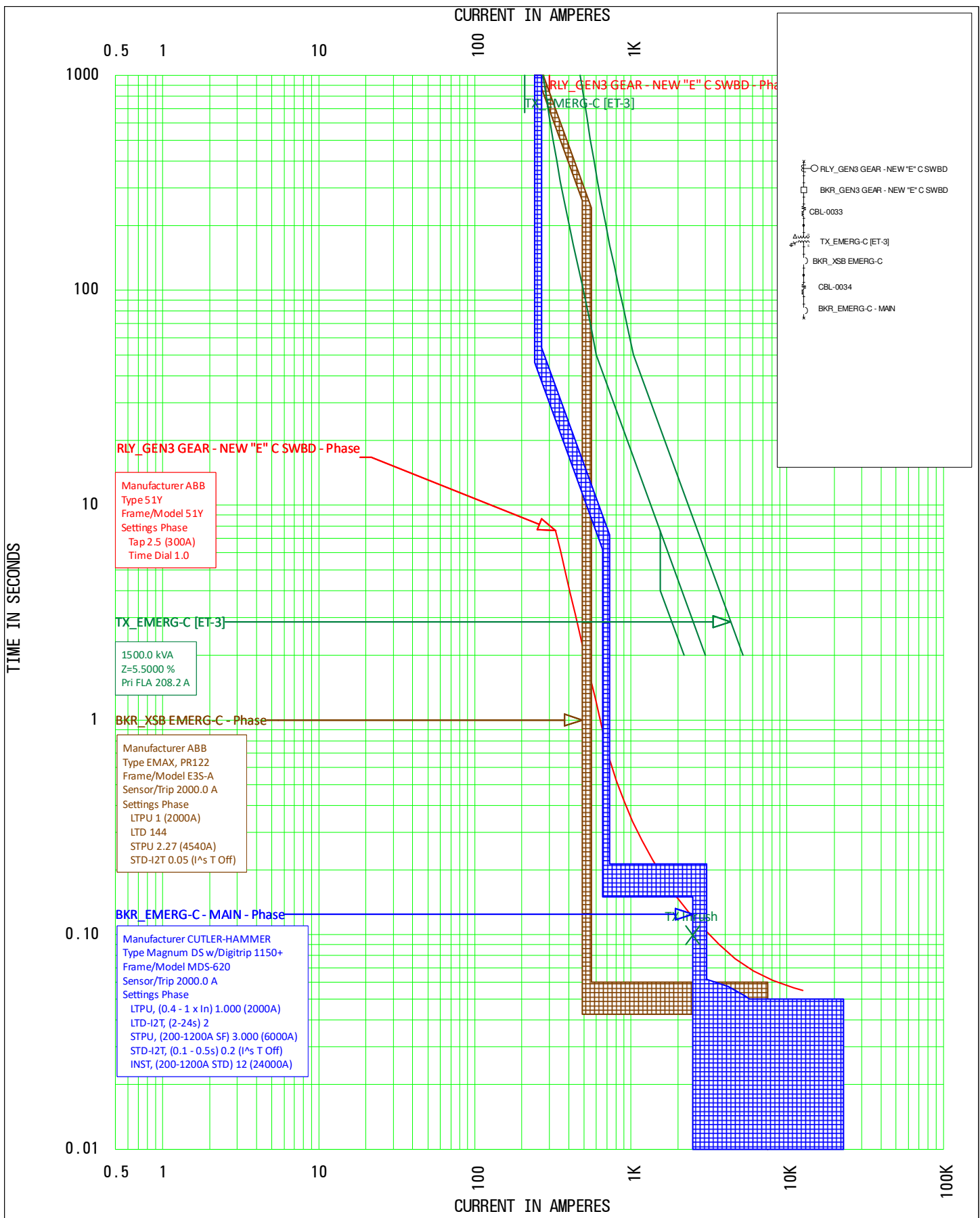Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

BKR_DPCBH2 - CB5H2 - Phase

Manufacturer CUTLER-HAMMER
Type NRX, Digitrip 520/520M
Frame/Model NRX
Sensor/Trip 800.0 A
Settings Phase
  LTPU, (0.5-1.0 x P) 0.7 (175A)
  LTD, (2-24 Sec.) 10
  STPU, (2-10 x Ir) 10 (1750A)
  STD, (0.1-0.5 Sec.) 0.1 (I^s T Off)
  INST, (2-12 x P) OFF

BKR_CB5H2 - CB5L2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

BKR_CB5H2 - CB5L2-2

Manufacturer CUTLER-HAMMER
Type EGB, 2-Pole
Frame/Model EGB
Sensor/Trip 90.0 A
Settings Phase
  Thermal Curve (Fixed)
  Magnetic (Fixed) Fixed (945A)

TIME IN SECONDS

CURRENT IN AMPERES

BKR_DPCBH2 - CB5H2
CBL-0274
PNL_CB5H2
BKR_CB5H2 - CB5L2-2
BKR_CB5H2 - CB5L2

TCC Name: TCC_126_PNL_CB5H2
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 480V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED

CURRENT IN AMPERES

CURRENT IN AMPERES

RLY_GEN3 GEAR - NEW "E" C SWBD - Phase

Manufacturer ABB
Type 51Y
Frame/Model 51Y
Settings Phase
  Tap 2.5 (300A)
  Time Dial 1.0

TX_EMERG-C [ET-3]

1500.0 kVA
Z=5.5000 %
Pri FLA 208.2 A

BKR_XSB EMERG-C - Phase

Manufacturer ABB
Type EMAX, PR122
Frame/Model E3S-A
Sensor/Trip 2000.0 A
Settings Phase
  LTPU 1 (2000A)
  LTD 144
  STPU 2.27 (4540A)
  STD-I2T 0.05 (I^s T Off)

BKR_EMERG-C - MAIN - Phase

Manufacturer CUTLER-HAMMER
Type Magnum DS w/Digitrip 1150+
Frame/Model MDS-620
Sensor/Trip 2000.0 A
Settings Phase
  LTPU, (0.4 - 1 x In) 1.000 (2000A)
  LTD-I2T, (2-24s) 2
  STPU, (200-1200A SF) 3.000 (6000A)
  STD-I2T, (0.1 - 0.5s) 0.2 (I^s T Off)
  INST, (200-1200A STD) 12 (24000A)

TX Inrush

○ RLY_GEN3 GEAR - NEW "E" C SWBD
□ BKR_GEN3 GEAR - NEW "E" C SWBD
  CBL-0033
  TX_EMERG-C [ET-3]
  BKR_XSB EMERG-C
  CBL-0034
  BKR_EMERG-C - MAIN

TCC Name: TCC_127_TX_EMERG-C [ET-3]
Project #810133
Base Project

Current Scale x 1

Reference Voltage: 4160V
Lowell General Hospital
Main Campus

CE POWER
POWER RELIABILITY DELIVERED